

اهال صا و طئاس و لا اطاخأ فاشك ت ساأ تاا امل ت MediaSense يف ةوق فم

تاا و تامل

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ةموقملا

يتلاو (MS) MediaSense يلع اهضرع متي يتلا ةعئاشلا لكاش ملاملا دن ت س ملاملا اذه فص ي
مداخلا يلع ليعشنتلا ةينام مدع و تاليجستلا دقف يف ببستت

ةيساسألا تابلطت ملاملا

تابلطت ملاملا

عوضوم اذه يلع ةفرعملا يقلت ي تنأ ي صوي cisco:

- Cisco MS
- Cisco Unified Contact Center Express (UCCX)
- Cisco Unified Communications Manager (CUCM) جامانرب

ةمدخت س ملاملا تانوك ملاملا

ةيلاتلا ةيداملا تانوك ملاملا و جاماربال تارادصا يلا دن ت س ملاملا اذه يف ةدراولا تامول عملا دن ت س ت

- MS و MS 10.5

• Call Manager 11.0







ةنيم جاتنا ةئيب يف ةدوجوملا ةزهجالا نم دنتسملا اذه يف ةدراولما تامولعملما عاشنما مت تناك اذا. (يضا رتفا) حوسمم نيوكتب دنتسملا اذه يف ةمدختسملا ةزهجالا عيمج تادب رما يال لمتمحملما ريثاتلل كمهف نم دكأتف ،ليغشتلا ديق كتكشبش

ةيساسا تامولعملما

يلا لوصولا نم اهنكمت مدع يه MS يلع اهتهجاوم متت يتيلا اعويش لكاشملا رثكا يدحا عاااخا فاشكتسا ةيفيك دنتسملا اذه حرشي MS. نم طئاسولا ةلازا ببسب تاليجستلا دوجو مدع ببس مهف يف ةدعاسملا لصف لكشب احوال صوا تاهويراني سلا نم عاونالا هذه MS يلع ةلجسملما طئاسولا

ةلكشملا

بجعت ةمالع كانهو 00:00 راسملا مجح رهظي. MS Search و Play نم تاليجستلا ليغشت رذعتي ةروصولا يف حضوم وه امك طئاسو دوجو مدع يلا ريشت ليجستلا راسي يلع عارفص

Search Recording by Participants or Tags										Search	Sort by:	Oldest t
Search Results as of 2016/03/01, 11:50 GMT+09:00												
	cb1530c27328a1 ERROR: Record Cancelled									00:00:00		
	▼ (2) 3903, 3901											
Extension	Login Id	Last Name	First Name	Login Name	Line Name	XRefci	CCID	Codec	Time			
3903	-	-	-	-	-	34640370	-	MP4A-LATM	00:00:00			
3901	3901	TEST	01	3901	TEST 01	34640369	-	MP4A-LATM	00:00:00			
	cc1530c2836851 ERROR: Record Cancelled									00:00:00		
	▶ (2) 3902, 3901											
	db153125f57fd2 ERROR: Zero Size Tracks									00:00:00		
	▶ (2) 3901, 3903											
	de153127f76592 ERROR: Zero Size Tracks									00:00:00		
	▶ (2) 3903, 3901											
	df1531281bb772 ERROR: Record Cancelled									00:00:00		
	▶ (2) 3903, 3901											
	de153128f51041 ERROR: Record Cancelled									00:00:00		
	▶ (0)											

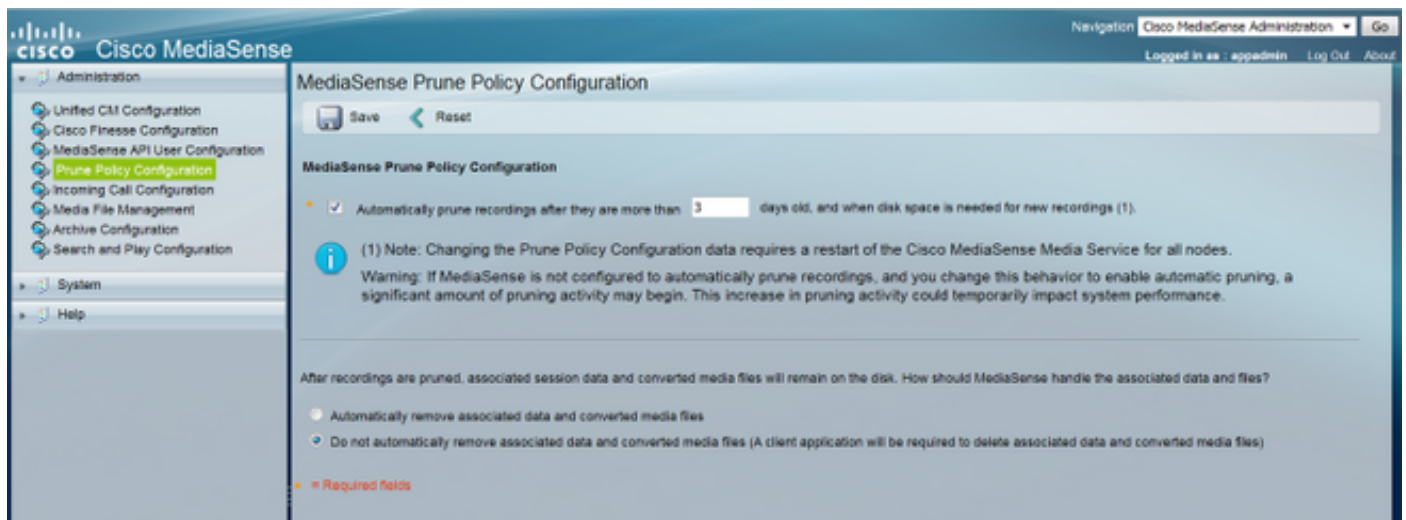
ةكرتشملا اياضقلا رثكا

ةققشم طئاسو

اذا و انيم انس تزواجت دق تناك اذا تاليجستلا بيذشت MS يلع بيدشتلا نيوكتل نكمي ثدحالا تاليجستلا لصل رثقا يلع ربكأ ةحاسم يلا ةجاح كانه تناك

> Cisco MediaSense ةرادا: عقوملا اذه يف كبة صاخلا حيقنتلا تادادع يلع روثعلا كنكمي تافلمو ةنرتقملا تانايبلا ةلازا مدع دادع يدحت مت اذا. حيقنتلا جهن نيوكت > ةرادا تانايبلا لظت ،مداخلا نم تاليجستلا حيقنت دنع هناف ،ايئاقلت ةلوحملما طئاسولا "ليجستلا عاغلما مت" اطا ثودح عم عارفص بجعت ةمالع ضرع متي امك اهب ةصاخلا ةيفصولا

ةروسلا ي ف حضوم وه امك "رفص مچ تاراسم" وأ



ةمدخ ةطساوب هؤاشنإ مت يذلا Groom.log لال خ نم يه كلذ نم ققحتلل ةقيرط عرسأ طئاسولا

رمعلل بيذشتلا

ةبقارم ةادأ نم طئاسولا ةمدخ تالچس ةعومجم نم orapurge.log وأ/و groom.log عيمجت كنكمي ةعرسب (CLI) رماوالا رطس ةهجاو مادختسا كنكمي وأ (RTMT) يلعلال تقولا

ةدعاق نم لمعلا ةسلج فرعمب طبترملا، ماخال SMD فلم سيرعلا لچس رهظي: ةظحال
فلم نم لمعلا ةسلج فرعم يلعل لوصحلل قهرم رمأ هنإ. طئاسولا ةمدخل MySQL تانايب
رمع مهفل طقف ةديج تالچسلا هذه. مداخال لىل يردجل لوصول ذخي هنال SMD
ةعوطقملا تالچستلا

م تي 2017 ينال نوناك/رياني 4 نم تالچستلا نأ تالچسلا هذه رهظت، لالثلما لىبس لعل
اهيقتن:

```
admin:file view activelog /ora/logs/media/groom.log
|2017-01-05 15:04:37.169| 10093: RUNNING min 86400 secs max 1 days evtmax 1 days
|2017-01-05 15:04:37.169| RETENTION groom /recordedMedia/10093/20170104/586d4513.smd
|2017-01-05 15:04:37.172| RETENTION groom /recordedMedia/10093/20170104/586d463f.smd
|2017-01-05 15:04:37.190| PRUNED DB config before Wed Jan 4 16:11:49 2017
```

```
|2017-01-05 15:04:37.252| 10198: RUNNING min 86400 secs max 1 days evtmax 1 days
|2017-01-05 15:04:37.252| RETENTION groom /recordedMedia/10198/20170104/586d45e8.smd
|2017-01-05 15:04:37.272| PRUNED DB config before Wed Jan 4 16:07:41 2017
```

```
|2017-01-05 15:04:37.291| 10055: RUNNING min 86400 secs max 1 days evtmax 1 days
|2017-01-05 15:04:37.291| RETENTION groom /recordedMedia/10055/20170104/586d4632.smd
|2017-01-05 15:04:37.311| PRUNED DB config before Wed Jan 4 16:10:05 2017
```

عبتتلا ماقراو لمعلا ةسلج فرعم ضرع دنعل لىصافتلا ضع ب orapurge.logshow

```
admin: file view activelog /ora/logs/media/orapurge.log
2017-01-10 14:50:26.551 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:71> ]
OraSessionPurge purging begins...
2017-01-10 14:50:27.189 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:106> ]
Recording id 10000 first time 1483988829 (5873df5d)
```

2017-01-10 14:50:27.190 [OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:114>] Found 0 clips below requested time
2017-01-10 14:50:27.190 [OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:106>] Recording id 10001 first time 1483993518 (5873f1ae)
2017-01-10 14:50:27.191 [OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:114>] Found 1 clips below requested time
2017-01-10 14:50:27.193 [OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:142>] ORA session 56e21598489cf631-TRACK0 has been groomed and is now removed

رمعلا بسح عبتتلا ليجست حيقنتل لجسلا ليلحت ىلع لاثم

مىلقنلا 90 ل اتاداع| نم عرسأ لكشب اهحيقنت مت تاليجستلا نأ ىرت، لاثملا اذه يف

طبق MS ىلى اءاج، id 56e5159848cca971 ةسلاج عم ليجست نأ ىرت تنأ، ORA-ORA تاليجس يف ةلاج normal_قلغم عم تقلغأو ديج

تيقوتب 2017 13:45:36 ريانى 9 نم" وهو، 1483987536761 دحملا تقولا يف ليجستلا أدب "5:00-شنتنيرج

هظفح مت ليجست ضرعى يذلاو، اضيأ انه طئاسولل URL ناوع ىرت امك

```
0005394466: 10.45.2.17: Jan 10 2017 14:58:09.955 -0400: %CCBU_API-7-TRACE: {Thrd=AMS-pool-1-thread-8} Result from the command -
{"responseMessage": "Success: Your request was successfully completed.", "responseCode": 2000, "responseBody": ... (removed for brevity)

{"sessionState": "CLOSED_NORMAL", "callControllerType": "Cisco-CUCM", "sessionId": "56e5159848cca971", "urls": {"httpUrl": "https://10.45.2.17:8446/recordedMedia/oramedia/mp4/56e5159848cca971.mp4", "rtspUrl": "rtsp://10.45.2.17/archive/56e5159848cca971", "mp4Url": "https://10.45.2.17:8446/recordedMedia/oramedia/mp4/56e5159848cca971.mp4", "wavUrl": "https://10.45.2.17:8446/recordedMedia/oramedia/wav/56e5159848cca971.wav"}, "sessionStartDate": 1483987536761, "tracks": [{"trackStartDate": 1483987536761, "trackDuration": 166256, "codec": "PCMU", "downloadUrl": "https://10.45.2.17:8446/mma/ExportRaw?recording=56e5159848cca971-TRACK1", "trackNumber": 1, "trackMediaType": "AUDIO", "participants": [{"participantStartDate": 1483987536761, "deviceRef": "7876050871", "isConference": false, "xRefCi": "40461072", "participantDuration": 166256, "deviceId": "DOM-WAN-RT1"}]}, {"trackStartDate": 1483987536761, "trackDuration": 166256, "codec": "PCMU", "downloadUrl": "https://10.45.2.17:8446/mma/ExportRaw?recording=56e5159848cca971-TRACK0", "trackNumber": 0, "trackMediaType": "AUDIO", "participants": [{"participantStartDate": 1483987536761, "deviceRef": "3204", "lineDisplayName": "SIN ASIGNAR AREA CAJA", "isConference": false, "xRefCi": "18891730", "participantDuration": 166256, "deviceId": "SEP00CCFC16F00D"}]}], "sessionDuration": 166256, "callControllerIP": "10.64.0.12"}
```

ةلصفنملا فارطألل Track0 و 1 راسملا Orapurge.log يف هتلازما متي ليجستلا اذه نأ ىرت ليجستلا يف

```
2017-01-10 15:00:26.539 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:71> ] OraSessionPurge purging begins...
2017-01-10 15:00:27.205 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:106> ] Recording id 10000 first time 1483988829 (5873df5d)
2017-01-10 15:00:27.205 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:114> ] Found 0 clips below requested time
2017-01-10 15:00:27.206 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:106> ] Recording id 10001 first time 1483993518 (5873f1ae)
...
2017-01-10 15:00:27.239 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:106> ] Recording id 10043 first time 1483994599 (5873f5e7)
```

```
2017-01-10 15:00:27.239 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:114> ] Found 1
clips below requested time
2017-01-10 15:00:27.242 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:142> ] ORA
session 56e5159848cca971-TRACK1 has been groomed and is now removed
...
2017-01-10 15:00:27.464 [ OraSessionPurge(19409) ORA_PURGE=1 <OraSessionPurge.cpp:193> ]
OraSessionPurge purging completes.
```

عرض ورمال جلسة نمضت و، اهب يدشت مت يتلا تاسلج لORA-ORA تالجس انل رهظت
اقباس:

```
0005395238: 10.45.2.17: Jan 10 2017 15:02:47.745 -0400: %CCBU_API-6-PRUNE_SESSIONS_COMMAND:
{Thrd=AMS-pool-1-thread-10} %[message=(Prune id = ORA.11.0.1.10000-103.ReplyTo.1.MMA.MMA1-
1484074962694-1, # sessions = 6)]: Response to Prune Sessions Command
0005395239: 10.45.2.17: Jan 10 2017 15:02:47.746 -0400: %CCBU_API-7-TRACE: {Thrd=AMS-pool-1-
thread-10} deletePrunedSessions(Operation Id: 1386, # sessions: 6) begin transaction duration :
0
0005395240: 10.45.2.17: Jan 10 2017 15:02:47.813 -0400: %CCBU_API-7-TRACE: {Thrd=AMS-pool-1-
thread-10} deletePrunedSessions(Operation Id: 1386, # sessions: 6) commit duration : 37
0005395241: 10.45.2.17: Jan 10 2017 15:02:47.813 -0400: %CCBU_API-7-TRACE: {Thrd=AMS-pool-1-
thread-10} deletePrunedSessions(Operation Id: 1386, # sessions: 6) transaction duration : 66
0005395242: 10.45.2.17: Jan 10 2017 15:02:47.813 -0400: %CCBU_API-7-TRACE: {Thrd=AMS-pool-1-
thread-10} deletePrunedSessions(Operation Id: 1386, # sessions: 6) method duration : 67
0005395243: 10.45.2.17: Jan 10 2017 15:02:47.813 -0400: %CCBU_API-7-TRACE: {Thrd=AMS-pool-1-
thread-10} deletePrunedSessions(Operation Id: 1386, # sessions: 6) deletable sessions: 6,
deleted sessions: 6
```

ةس ل طوش 6 ل يدب اذه

```
0005395244: 10.45.2.17: Jan 10 2017 15:02:47.813 -0400: %CCBU_API-6-PRUNE_SESSIONS_RESPONSE:
{Thrd=AMS-pool-1-thread-10} %[message=PruneSessionsResponse[Response,prune.id=ORA.11.0.1.10000-
103.ReplyTo.1.MMA.MMA1-1484074962694-1,status=SUCCESS,sessions(6)=[56e5159848cca971,
56e6159848cedb61, 56e7159848ddf241, 56e8159848de26c1, 56e91598490f5bd1,
56ea1598493582c1],seqnum=2780,header=MessageHeader[jmsType=ORA.AMS.PruneSessionsResponse,id=null
,corrId=null,ssId=API1,ssType=API,dest=ORA.11.0.1.10000-
103.ReplyTo.1.MMA.MMA1,replyTo=null,kind=RESPONSE,reqId=MMA.MMA1.1484074967738.1654,reqTimeout=1
80000,alwaysDeliverResponses=true,msgVersion=[1, 1,
1],timestamps={created=1484074967813}],state=CREATED,sequenced=false,msg={null}]]: Response to
Prune Sessions Response
```

ةحاسم ل يدب اذشت

صرق ل اذشت عاحاسم عاجرتسال ليجستل تاي لمع عارج تقو ةيؤ اضيأ كنكمي امك
لصي يذل /RegisteredMedia ميسقتل ةجرال الال ل MS لصي ام دنع. ةديج تاليجستل
(رمعلل نذال دحل نم لقا تناك ناو يتح) مدق الال تاليجستل حي قنت متي، ةئمل ي 90 ل
يتح ليجست 200 تاعفد ميسقتب MS ةمدخ موقت. ةديج لال تاليجستل ل لاجم ل حاسم ل
لقلأ و 86% ل صرق ل حاسم لصت

```
admin:file view activelog /ora/logs/media/groom.log
|2016-10-03 16:09:51.669| Volume /recordedMedia OVERSUBSCRIBED at 87%, need to get to 86%
|2016-10-03 16:09:51.669| Attempting 0 of max attempts[ 20 ]
|2016-10-03 16:09:54.729| OVERSUBSCRIPTION groom /recordedMedia/10054/20160902/57c9d313.smd
|2016-10-03 16:09:54.730| OVERSUBSCRIPTION groom /recordedMedia/10068/20160902/57c9d313.smd
|2016-10-03 16:09:54.734| OVERSUBSCRIPTION groom /recordedMedia/10073/20160902/57c9d314.smd
|2016-10-03 16:09:54.734| OVERSUBSCRIPTION groom /recordedMedia/10092/20160902/57c9d314.smd
```

ةفشرألا لبق بېذشتلا

ءارجإ كنكمي، تالاحلا ضعب يف MS 10.5 يف SFTP مءاخ ىلإ لىجستلا ةفشرأ لءا ءمء عاطقنا يف لثمتت ةءئاش ةلكشم كانه. ةفشرألا مءت نأ لبق طئاسولا ىلع تاحيقنت ل كنكمي ال، ةلئوط ةرتفب كلذ لبق لىجستلا ةفشرأ مءت نيح يفو، SFTP مءاخ لاصتالا رركتم لكشب MediaSense لءا يف. SFTP مءاخ لاصتالا لكاشم ببسب كلذب مءايقلا MS ةفشرألا ةلءوام تلشف اذا لىجست ةفشرأ.

ءقئثولا يف ءارتس امل لاثم ىلئ امي ءو /var/log/active/ora/logs/storagemanagement/ORA-storagemanagementagent.YYY-MM-DDTHH-MM-SS.SSS.log:

admin: ءرء ةقئط : /ora/logs/media/storagemanagement/ORA-storagemanagementagent.YYY-MM-DDTHH-MM-SS.sss.log

ءفشرؤملا ةسلءلا ءرءم : ebcf45708f010bc1
IP مءاخ SFTP: 10.75.41.225

ةفشرألا لىجستلا لىوحتب MS مءوقئ:

```
0010755845: 10.75.41.210: Sep 08 2016 20:33:09.068 -0500: %CCBU_MMA-6-CONVERT_SESSION_REQUEST:
{Thrd=pool-14-thread-107845}
%[message_string=ConvertSessionTask-185682: Sending response
ConvertSessionResponse[Response, session=ebcf45708f010bc1,
status=SUCCESS, url=http://10.75.41.210:8081/recordedMedia/oramedia/mp4/ebcf45708f010bc1.mp4, details=Success, seqnum=1528709,
header=MessageHeader[jmsType=ORA.MMA.ConvertSessionResponse, id=null, corrId=null, ssId=MMA1,
ssType=MMA, dest=ORA.10.5.1.10000-
23.ReplyTo.1.AMS.API1, replyTo=null, kind=RESPONSE, reqId=API.API1.1473384786428.476820,
reqTimeout=7200000, alwaysDeliverResponses=false, msgVersion=[1, 1,
1], timestamps={created=1473384789060}],
state=CREATED, sequenced=false, msg={null}]]]:
```

لىجستلا لىوحتب لء ءلءامب MS مءوقئ:

```
0010755846: 10.75.41.210: Sep 08 2016 20:33:09.073 -0500: %CCBU_MMA-6-MSG_INCOMING_FROM_BUS:
{Thrd=ActiveMQ Session Task-2315}
%[correlation_id=null][mid=ID:TacMS-60118-1471342398443-
3:3:2:1:477533][msg_kind=ActiveMQMapMessage][
msg_type=ORA.MMA.TransferSessionRequest]: A message has been received by the message bus
```

```
0010755847: 10.75.41.210: Sep 08 2016 20:33:09.074 -0500: %CCBU_MMA-6-
TRANSFER_SESSION_EVENT_INFO: {
Thrd=pool-1-thread-20-MMA1-1409831} %[event.type=Adding to execute TransferSessionTask-291323,
sessionName=ebcf45708f010bc1: ]
[message=]: TransferSession
```

ءه JSch (JSch) ةنمألا Java ةانق ءانثتسا عم لشفئ هنكلو، SFTP مءاخ لاصتالا MS لءا يف. هب صءاخلا SSH لئمءل MS همءءتسى ىلئ SSHv2 ل Java قئبءطت:

```
0010755848: 10.75.41.210: Sep 08 2016 20:33:09.074 -0500: %CCBU_MMA-6-
TRANSFER_SESSION_EVENT_INFO: {Thrd=pool-1-thread-8-MMA1-1409832}
%[event.type=SFTP Trace Level (1) - Connecting to 10.75.41.225 port 22][message=]:
TransferSession
```

```
0010755849: 10.75.41.210: Sep 08 2016 20:33:09.076 -0500: %CCBU_MMA-3-CONVERT_SESSION_ERROR:
{Thrd=pool-1-thread-8-MMA1-1409832} %[exception=][message=TransferSessionTask-291323,
sessionName=ebcf45708f010bc1:
```

Exception][message_string=com.jcraft.jsch.JSchException: java.net.ConnectException: Connection refused]:

```
0010755850: 10.75.41.210: Sep 08 2016 20:33:09.076 -0500: %CCBU_MMA-3-EXCEPTION_INFO:
{Thrd=pool-1-thread-8-MMA1-1409832}
%[build_date=Jan 16, 1970 11:38 PM][build_type=rel][exception=com.jcraft.jsch.JSchException:
java.net.ConnectException: Connection refused
at com.jcraft.jsch.Util.createSocket(Util.java:349)
at com.jcraft.jsch.Session.connect(Session.java:215)
at com.jcraft.jsch.Session.connect(Session.java:183)
at
com.cisco.ora.mediamanageragent.msgs.TransferSessionTask.createSftpSession(TransferSessionTask.j
ava:479)
at
com.cisco.ora.mediamanageragent.msgs.TransferSessionTask.fileExists(TransferSessionTask.java:417
)
at
com.cisco.ora.mediamanageragent.msgs.TransferSessionTask.getAction(TransferSessionTask.java:121)
at com.cisco.ora.mediamanageragent.msgs.TransferSessionTask.run(TransferSessionTask.java:203)
at com.cisco.ccbu.infra.threads.InstrumentedRunnable.run(InstrumentedRunnable.java:92)
at java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.java:886)
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:908)
at java.lang.Thread.run(Thread.java:662)
at com.cisco.ccbu.infra.threads.ThreadPoolThread.run(ThreadPoolThread.java:164)
Caused by: java.net.ConnectException: Connection refused
at java.net.PlainSocketImpl.socketConnect(Native Method)
at java.net.PlainSocketImpl.doConnect(PlainSocketImpl.java:351)
at java.net.PlainSocketImpl.connectToAddress(PlainSocketImpl.java:213)
at java.net.PlainSocketImpl.connect(PlainSocketImpl.java:200)
at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:366)
at java.net.Socket.connect(Socket.java:529)
at java.net.Socket.connect(Socket.java:478)
at java.net.Socket.<init>(Socket.java:375)
at java.net.Socket.<init>(Socket.java:189)
at com.jcraft.jsch.Util.createSocket(Util.java:343)
... 11 more
```

CUCM ن م زيمرتال جمانرب ضوافت لشف

يفرطال زاهجال لثم ي، CUCM/MS لغشم ي في (Bib) Integrated-Bridge ليجست عم وه لاثملا اذه مت يذلا فتاهلا قلاحي في CUCM فتاه اذهو، MS لىل توصلا لسري يذلا زاهجال بيرقلا لىل طئاسولا لسري يذلا زاهجال وه ديعبل يفرطال زاهجال. Bib ليجست مادختساب هنيوكت ه ن م يتات يذلا زاهجال وهو، CUCM SIP لاصتا طخ وه اذه، تالاحل مطعم ي في. لجملا زاهجال ن م قبيرقلا تاراشلا لاسرا ي في ريكفتلا كنك م ي، واستم لكشب. PSTN فتاهل SIP تاراشلا لجملا زاهجال ن م اهلابقتسا مت ي يتلا ديعبل تاراشلا لاسراو لجملا زاهجال لالخ.

MS Search and Play ن م اهتيؤر كنك م ي يتلا لاصتالا تامولعم يه هذه، لاثملا اذه ي في

Session ID: 745a15454b0e7f62

ERROR: Record Response Fail 11/11/2016 10:40 GMT-08:00 Calling: 5255553333 xrefCI: 71234316

Codec Listed: G729 Called : 555666 xrefCI: 71233302 Codec Listed: none

قملاكملا ي في زيمرتال جمانرب لىل ع ضوافتلا ي في لشف دوجو لمحتجملا ن م هنا ىرت امك CUCM CIs يه اهتيؤر مت يتلا xrefCIs و MS SIP لاصتا طخ لىل CUCM فتاه ن م قئاهنلا اهليلجستب MS تماق يتلا قمللاكملا لىل سيلو قئاهنلا قمللاكملا.

These two CIs comprises one SIP Call-ID for the audio call between the two phones.

DN: 5255553333 <-- CI: 71234316 --> CUCM <-- CI: 71233302 --> DN: 555666

اهليلجست دارملا قمللاكملا لىل اهليلج روثعلا مت يتلا CIs تاقاطب يه هذه، CUCM تالاجس ي في

These two CIs comprise one SIP Call-ID for the near-end recorded call.

DN: 555666 <-- CI: 71233611 --> CUCM <-- CI: 71233612 --> MS SIP Trunk 'DN': 4321

These two CIs comprise one SIP Call-ID for the far-end recorded call.

DN: 5255553333 <-- CI: 71233614 --> CUCM <-- CI: 71233615 --> MS SIP Trunk 'DN': 4321

MS تالچس

تۆننەن ەبش ەملاکەم:

زاجلا نم 50459200-8261109d-125c82-2080fe0a@10.1.1.60 Call-id: First Invite MS Receive: بېرقلال يفرطلال.

```
0000724480: 10.55.100.23: Nov 11 2016 12:40:29.637 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE:
{Thrd=Pool-sip-thread-17475} %[message_string=process new Invitation: SipCall-17502,
INBOUND_RECORDING, null, State=ALERTED: , processing=7
INVITE sip:4321@10.55.100.23:5060 SIP/2.0
Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee04b9db528
Max-Forwards: 69
To: <sip:4321@10.55.100.23>
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-nearend;x-refci=71233302;x-
nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-
farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-
farendaddr=5255553333>;tag=3695142~47718da5-fef5-1f81-1709-6f389f40258a-71233612
Call-ID: 50459200-8261109d-125c82-2080fe0a@10.1.1.60
CSeq: 101 INVITE
Content-Length: 0
Date: Fri, 11 Nov 2016 18:40:29 GMT
Supported: timer,resource-priority,replaces
Supported: X-cisco-srtp-fallback
Supported: Geolocation
Min-SE: 1800
User-Agent: Cisco-CUCM11.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Expires: 180
Allow-Events: presence, kpml
Call-Info: <sip:10.1.1.60:5060>;method="NOTIFY;Event=telephone-event;Duration=500"
Session-ID: 00000000000000000000000000000000;remote=00000000000000000000000000000000
Cisco-Guid: 1346736640-0000065536-0000177089-0545324554
Session-Expires: 1800
P-Asserted-Identity: "(Operator) Jared TAC" <sip:555666@10.1.1.60>
Remote-Party-ID: "(Operator) Jared TAC"
<sip:555666@10.1.1.60>;party=calling;screen=yes;privacy=off
Contact: <sip:555666@10.1.1.60:5060;transport=tcp>;isfocus
```

نېنر MS 180 لسرت

```
0000724487: 10.55.100.23: Nov 11 2016 12:40:29.638 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE:
{Thrd=Pool-sip-thread-17475} %[message_string=postProcessInvitation SipCall-17502,
INBOUND_RECORDING, NEAR_END, State=ALERTED: sending response
SIP/2.0 180 Ringing
Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee04b9db528
To: <sip:4321@10.55.100.23>;tag=ds23933dcf
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-nearend;x-refci=71233302;x-
nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-
farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-
farendaddr=5255553333>;tag=3695142~47718da5-fef5-1f81-1709-6f389f40258a-71233612
```


] : Border Message

0000724530: 10.55.100.23: Nov 11 2016 12:40:29.868 -0600: %CCBU_CALL_CONTROL-7-TRACE:
{Thrd=DIALOG_CALLBACK.11} -SdpParser: created AUDIO-MediaParameters: host=10.15.255.254,
port=4000, RtpAttributes=[payloadType=18 G729/8000], SENDONLY, pTime=20
0000724531: 10.55.100.23: Nov 11 2016 12:40:29.868 -0600: %CCBU_CALL_CONTROL-4-WARN_MESSAGE:
{Thrd=DIALOG_CALLBACK.6} %[message_string=SipCall-17502, INBOUND_RECORDING, NEAR_END,
State=ALERTED invalid codec or does not have SDP body in Ack

قمة الاءان اب CUCM ماق

0000724562: 10.55.100.23: Nov 11 2016 12:40:29.871 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE:
{Thrd=DIALOG_CALLBACK.6} %[message_string=SipCall-17502, INBOUND_RECORDING, NEAR_END,
State=DISCONNECTED sendBye, reason=reject sending
BYE sip:555666@10.1.1.60:5060;transport=tcp SIP/2.0
Max-Forwards: 70
To: <sip:555666@10.1.1.60;x-nearend;x-refci=71233302;x-nearendclusterid=TACOp;x-
nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-farendrefci=71234316;x-
farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-
farendaddr=5255553333>;tag=3695142~47718da5-fef5-1f81-1709-6f389f40258a-71233612
From: <sip:4321@10.55.100.23>;tag=ds23933dcf
Call-ID: 50459200-8261109d-125c82-2080fe0a@10.1.1.60
CSeq: 1 BYE
Content-Length: 0
] : Border Message

قمة بع الاءان م

نم 50459200-8261109d-125c83-2080fe0a@10.1.1.60 Invite MS RECEIVE الاءان يف رطال زاهج

INVITE sip:4321@10.55.100.23:5060;transport=TCP SIP/2.0
Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee255dcfc0
Max-Forwards: 69
To: <sip:4321@10.254.128.36>
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-farend;x-refci=71233302;x-
nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-
farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-
farendaddr=5255553333>;tag=3695143~47718da5-fef5-1f81-1709-6f389f40258a-71233615
Call-ID: 50459200-8261109d-125c83-2080fe0a@10.1.1.60
CSeq: 102 INVITE
Content-Length: 0
Date: Fri, 11 Nov 2016 18:40:29 GMT
Supported: timer,resource-priority,replaces
Supported: X-cisco-srtp-fallback
Supported: Geolocation
Min-SE: 1800
User-Agent: Cisco-CUCM11.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Expires: 180
Allow-Events: presence, kpml
Call-Info: <sip:10.1.1.60:5060>;method="NOTIFY;Event=telephone-event;Duration=500"
Session-ID: 00000000000000000000000000000000;remote=00000000000000000000000000000000
Cisco-Guid: 1346736640-0000065536-0000177090-0545324554
Session-Expires: 1800
P-Asserted-Identity: "(Operator) Jared TAC" <sip:555666@10.1.1.60>
Remote-Party-ID: "(Operator) Jared TAC"
<sip:555666@10.1.1.60>;party=calling;screen=yes;privacy=off
Contact: <sip:555666@10.1.1.60:5060;transport=tcp>;isfocus

ة.يناتللا ةملالكملل نينر MS 180 لسرت

0000724502: 10.55.100.23: Nov 11 2016 12:40:29.683 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE: {Thrd=Pool-sip-thread-17476} %[message_string=postProcessInvitation SipCall-17503, INBOUND_RECORDING, NEAR_END, State=ALERTED: sending response SIP/2.0 180 Ringing
Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee255dcfc0
To: <sip:4321@10.254.128.36>;tag=dsb56a3dfc
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-farend;x-refci=71233302;x-nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-farendaddr=5255553333>;tag=3695143~47718da5-fef5-1f81-1709-6f389f40258a-71233615
Call-ID: 50459200-8261109d-125c83-2080fe0a@10.1.1.60
CSeq: 102 INVITE
Content-Length: 0
Contact: <sip:4321@10.55.100.23:5060;transport=tcp>
Allow: INVITE, BYE, CANCEL, ACK, NOTIFY, INFO, UPDATE
Server: MediaSense/10.x

سرت MS 200 OK عم SDP.

0000724516: 10.55.100.23: Nov 11 2016 12:40:29.800 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE: {Thrd=Pool-capture-thread-15474} %[message_string=SipCall-17503, INBOUND_RECORDING, FAR_END, State=ALERTED send 200 Ok:
SIP/2.0 200 Ok
Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee255dcfc0
To: <sip:4321@10.254.128.36>;tag=dsb56a3dfc
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-farend;x-refci=71233302;x-nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-farendaddr=5255553333>;tag=3695143~47718da5-fef5-1f81-1709-6f389f40258a-71233615
Call-ID: 50459200-8261109d-125c83-2080fe0a@10.1.1.60
CSeq: 102 INVITE
Content-Length: 309
Contact: <sip:4321@10.55.100.23:5060;transport=tcp>
Content-Type: application/sdp
Allow: INVITE, BYE, CANCEL, ACK, NOTIFY, INFO, UPDATE
Server: MediaSense/10.x
v=0
o=CiscoORA 2152 1 IN IP4 10.55.100.23
s=SIP Call
c=IN IP4 10.55.100.23
t=0 0
m=audio 53368 RTP/AVP 102 0 8 9 18
a=rtpmap:102 MP4A-LATM/90000
a=fmtp:102 profile-level-id=24;object=23;bitrate=64000
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:9 G722/8000
a=rtpmap:18 G729/8000
a=recvonly
]: Border Message

نامعدي ني مداخل الك نأل ارظن ةملالكملل هذهل G729 راي تخ| م تي. SDP عم ACK لسري CUCM
SDP نم اذه

0000724521: 10.55.100.23: Nov 11 2016 12:40:29.866 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE: {Thrd=DIALOG_CALLBACK.11} %[message_string=SipCall-17503, INBOUND_RECORDING, FAR_END, State=ALERTED process ACK, hasBody=true
ACK sip:4321@10.55.100.23:5060;transport=tcp SIP/2.0

Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee3220aa67f
Max-Forwards: 69
To: <sip:4321@10.254.128.36>;tag=dsb56a3dfc
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-farend;x-refci=71233302;x-nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-farendaddr=5255553333>;tag=3695143~47718da5-fef5-1f81-1709-6f389f40258a-71233615
Call-ID: 50459200-8261109d-125c83-2080fe0a@10.1.1.60
CSeq: 102 ACK
Content-Length: 259
Date: Fri, 11 Nov 2016 18:40:29 GMT
User-Agent: Cisco-CUCM11.0
Allow-Events: presence, kpml
Session-ID: 00000000000000000000000000000000;remote=59bbdbcfa64352fa65ba535ab3695143
Content-Type: application/sdp
v=0
o=CiscoSystemsCCM-SIP 3695143 1 IN IP4 10.1.1.60
s=SIP Call
c=IN IP4 10.15.255.254
b=TIAS:8000
b=CT:8
b=AS:8
t=0 0
m=audio 4000 RTP/AVP 18 101
a=ptime:20
a=rtpmap:18 G729/8000
a=sendonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
]: Border Message

قمة الملأء انإب CUCM ماق

0000724546: 10.55.100.23: Nov 11 2016 12:40:29.869 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE:
{Thrd=DIALOG_CALLBACK.6} %[message_string=SipCall-17503, INBOUND_RECORDING, FAR_END,
State=ACTIVE sendBye, reason=local disconnect sending
BYE sip:555666@10.1.1.60:5060;transport=tcp SIP/2.0
Max-Forwards: 70
To: <sip:555666@10.1.1.60;x-farend;x-refci=71233302;x-nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-farendaddr=5255553333>;tag=3695143~47718da5-fef5-1f81-1709-6f389f40258a-71233615
From: <sip:4321@10.254.128.36>;tag=dsb56a3dfc
Call-ID: 50459200-8261109d-125c83-2080fe0a@10.1.1.60
CSeq: 1 BYE
Content-Length: 0

لش فك قمة الملأ لي جس تب MS تماق

0000724557: 10.55.100.23: Nov 11 2016 12:40:29.871 -0600: %CCBU_CALL_CONTROL-7-TRACE:
{Thrd=DIALOG_CALLBACK.6} -InMemoryDataBaseAdapter: processing UpdateLocalDB
Session: 745a15454b0e7f62, ERROR, MEDIA_SERVER_ERROR, sipServer=10.55.100.23, version=9,
lastNotifiedVersion=9, fromDN=null, toDN=null, audioChannels=2, videoChannels=0, started: Fri
Nov 11 12:40:29 CST 2016, ended: Fri Nov 11 12:40:29 CST 2016, duration=0sec,
recordingServer=10.55.100.23, ccId=null, ccIp=10.1.1.60, type=PHONE, appType=null, ErrorDetail
=MEDIA_SERVER_ERROR
CallEndPoint: type=NEAR_END, dn=555666, displayName=(Operator) Jared TAC, xRefci=71233302,
device=SEP002497A964CF, conf=false, {SipCall-17502, INBOUND_RECORDING, NEAR_END,
State=DISCONNECTED, CallId: 50459200-8261109d-125c82-2080fe0a@10.1.1.60}, Tracks=[TrackInfo:
type=AUDIO, port=34370, trackNumber=0, repository=/recordedMedia, size=-1, state=ACTIVE,
stateChanged=false, codec=null]
CallEndPoint: type=FAR_END, dn=5255553333, xRefci=71234316, device=10.15.255.254, conf=false,

```
{SipCall-17503, INBOUND_RECORDING, FAR_END, State=DISCONNECTED, CallId: 50459200-8261109d-125c83-2080fe0a@10.1.1.60}, Tracks=[TrackInfo: type=AUDIO, port=53368, trackNumber=1, repository=/recordedMedia, size=-1, state=ACTIVE, stateChanged=false, codec=G729]
```

MS. في هظفحو JSON فلم عاشن| متي

```
0000724560: 10.55.100.23: Nov 11 2016 12:40:29.871 -0600: %CCBU_CALL_CONTROL-6-BORDER_MESSAGE:
{Thrd=Pool-ams-thread-9738} %[message_string=HttpPostClient-9738: executing POST
http://10.55.100.23:8640/ora/SipAdaptorService/SipAdaptor/addOrUpdateSession HTTP/1.1
{"sessionId": {
"callControllerIP": "10.1.1.60",
"callControllerType": "Cisco-CUCM",
"endDate": 1478889629869,
"endPoints": [
{
"clusterid": "TACOp",
"conference": false,
"device": "SEP002497A964CF",
"displayName": "(Operator) Jared TAC",
"dn": "555666",
"startDate": 1478889629868,
"tracks": [{
"location": "/recordedMedia",
"mediaState": "ACTIVE",
"startDate": 1478889629868,
"track": 0,
"type": "AUDIO"
}],
"type": "NEAR_END",
"xRefci": "71233302"
},
{
"clusterid": "TACOp",
"conference": false,
"device": "10.15.255.254",
"dn": "5255553333",
"startDate": 1478889629868,
"tracks": [{
"codec": "G729",
"location": "/recordedMedia",
"mediaState": "ACTIVE",
"startDate": 1478889629868,
"track": 1,
"type": "AUDIO"
}],
"type": "FAR_END",
"xRefci": "71234316"
}
],
"errorDetail": "MEDIA_SERVER_ERROR",
"operationType": "ADD",
"recordingServer": "10.55.100.23",
"sessionId": "745a15454b0e7f62",
"sipServer": "10.55.100.23",
"startDate": 1478889629868,
"state": "ERROR",
"version": 9
}]]: Border Message
```

CUCM تالچس

MS. بلط طمنب لصتي يذال CUCM BiB فتاهل ي مقرلا لي لحتل لي امي
b0042422044001 وه BiB DN.

```
47540157.011 |10:40:29.606 |AppInfo |Digit analysis: match(pi="1", fqcn="",
cn="b0042422044001",plv="5", pss="Directory URI:Internal_pt:Voicemail_PT:UCCX_pt:SAT-TX-8-5-
PT:SAT-TX-OffHrs-PT", TodFilteredPss="Directory URI:Internal_pt:Voicemail_PT:UCCX_pt:SAT-TX-8-5-
PT", dd="4321",dac="0")
47540157.012 |10:40:29.606 |AppInfo |Digit analysis: analysis results
47540157.013 |10:40:29.606 |AppInfo ||PretransformCallingPartyNumber=b0042422044001
|CallingPartyNumber=b0042422044001
|DialingPartition=Internal_pt
|DialingPattern=4321
```

71233611. لاصت إلات حات فم انه. ماقرال ل لحتل CUCMs ة باحتسإ

```
47540163.000 |10:40:29.606 |SdlSig |DmPidRes |wait |Da(4,100,214,1) |DeviceManager(4,100,208,1)
|4,100,14,574746.28^10.1.1.60^Port 32978 |[R:N-H:0,N:0,L:0,V:0,Z:0,D:0] Cepn=c0132a35-e434-e61d-
ddda-af59c7a2ce1d Id=3812252328 ccmType=3 DeviceName=MediaSense_RL Pid=4,100,90,41,
```

CUCM: 71233611. لى Blb نم ا

```
47540163.001 |10:40:29.606 |AppInfo |Digit analysis: wait_DmPidRes- Partition=[d15d1a00-02a2-
34a7-e0d9-7d653b500c6d] Pattern=[4321] Where=[],cmDeviceType=[AccessDevice], OutsideDialtone
=[0], DeviceOverride=[0],
PID=RouteListControl(4,100,90,41),CI=[71233611], Sender=Cdcc(4,100,222,745108)
```

CUCM- لاصت ا طخ لاصت ال ا وه اذ. 71233612. ا قاطب مادخت ساب هذه ا قاطب دادع متي
MS SIP. لاصت ا فرعم نالكشي ا نم ناعون ل ا اذ.

```
47540171.000 |10:40:29.606 |SdlSig |CcSetupReq |idle |RouteListControl(4,100,90,41)
|Cdcc(4,100,222,745108) |4,100,14,574746.28^10.1.1.60^Port 32978 |[R:N-H:0,N:1,L:0,V:0,Z:0,D:0]
CI=71233612 CI.branch=0 sBPL.plid=65 sBPL.l=0 sBPL.pl=5 sBPL.msdc=0 FDataType=0 opId=0 ssType=0
SsKey=0 invokeId=0 resultExp=F bpda=F pi.piid=30 pi.l=0 pi2.piid=30 pi2.l=0 pi3.piid=30 pi3.l=0
FQCGPN=pi=0sil preXCgpn=tn=0npi=0ti=1nd=b0042422044001pi=0sil cgPart= cgPat=b0042422044001
cgpn=tn=0npi=0ti=1nd=8980pi=0si3 cgpnVM= unXCgpn=tn=0npi=0ti=1nd=b0042422044001pi=0sil
cName=locale: 1 Name: (Operator) Jared TAC UnicodeName: (Operator) Jared TAC pi: 0
DD=ti=1nd=4321pi=0sil origDD=ti=1nd=4321pi=0sil preXCdpn=tn=0npi=0ti=1nd=4321pi=0si0
preXTagsList=SUBSCRIBER preXPosMatchList=4321 cdPart=d15d1a00-02a2-34a7-e0d9-7d653b500c6d
cdPat=4321 cdpn=tn=0npi=0ti=1nd=4321pi=0sil cdpnVMbox= localPatternUsage=5
connectedPatternUsage=0 itrPart= itrPat= LRPart= LRPat= LR=tn=0npi=0ti=1pi=0sil LRVM=
LRName=locale: 1 Name: Call Manager UnicodeName: pi: 0 FQOCpdn=ti=1nd=4321pi=0sil
ffQLRNum=pi=0sil oPart=d15d1a00-02a2-34a7-e0d9-7d653b500c6d oPat=4321
oCpdn=tn=0npi=0ti=1nd=4321pi=0sil oCdpnVM= oRFR=354 oName=locale: 1 Name: UnicodeName: pi: 0
ts=SUBSCRIBER posMatches=4321 withTags= withValues= rdn.l=0IpAddrMode=0 ipAddrType=0
ipv4=10.15.3.60:0 region=LasVegas_Region capCount=1 ctiActive=F ctiFarEndDev=1 ctiCCMId=4
cgPtyDev=SEP002497A964CF callInst=0 confCallInst=0 OLF=1Supp DTMF=3DTMF Cfg=1DTMF
Payload=0isOffNetDev=F bc.l=0 bc.itr=0 bc.itc=0 bc.trm=0 bc.tm=0 maxForwards=70
cgpnMaskedByRedirect=T callingDP= featCallType=0 callingUserId= UnicodeName: muteEnabled=0
associatedCallCI=0 featurePriority=1 nonTargetPolicy=0 unconsumedDigits= suppressMOH=T
numPlanPkid =47120c78-3381-7a76-dc37-fc87210358cb networkDomain= bitMask=0 SetupReason=0
routeClass=1 sideACmDeviceType=1 protected=1 ControlProcessType=0 tokens=0 isPresent=F
transitCount=0 geolocInfo=null locPkid= locName= deductBW=F fateShareId=
videoTrafficClass=Unspecified oFromAnalogDvc=F bridgeParticipantID= callingUsr= remoteClusterID=
isEMCCDevice=F lHPMemCEPN= cHPMemCEPN= isParamSet=FTransparentData=null CanSupportSIPTandN=false
TransId=0 AllowBitMask=0x0 UserAgentOrServer= OrigDDName=locale: 1 Name: UnicodeName: pi: 0
mCallerId= mCallerName=LatentCaps=null icidVal= icidGenAddr= oioi= tioi= ptParams= receivedPAID=
routeHdr= routeCepn= requestURI= PCVFlag=F originallyHadISUP=F isIMSFinalRoute=F IMSMode=0
```

SideABibEnabled= 0 isCgpnNonPreemptable=F isCdpnNonPreemptable=F origDP= lastRedirectingDP=
originalLRG= lastRedirectingLRG= nwLoc=0 rstr= FarEndDeviceName= ReferredByUri= Session-ID:
;remote= hdrMOH=0 CAL={v=ffffffff, m=ffffffff, tDev=F, res=F, devType=0}

فمادختساب ةملاكملا هذهل MS لىل ةوعدلا يلى اميف
2080fe0a. Call-ID 50459200-8261109d-125c82-

47540202.001 |10:40:29.610 |AppInfo |SIPTcp - wait_SdlSPISignal: Outgoing SIP TCP message to
10.55.100.23 on port 5060 index 95625
[12124747,NET]
INVITE sip:4321@10.55.100.23:5060 SIP/2.0
Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee04b9db528
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-nearend;x-refci=71233302;x-
nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-
farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-
farendaddr=5255553333>;tag=3695142~47718da5-fef5-1f81-1709-6f389f40258a-71233612
To: <sip:4321@10.55.100.23>
Date: Fri, 11 Nov 2016 18:40:29 GMT
Call-ID: 50459200-8261109d-125c82-2080fe0a@10.1.1.60
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM11.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 101 INVITE
Expires: 180
Allow-Events: presence, kpml
Supported: X-cisco-srtp-fallback
Supported: Geolocation
Call-Info: <sip:10.1.1.60:5060>;method="NOTIFY;Event=telephone-event;Duration=500"
Session-ID: 00000000000000000000000000000000;remote=00000000000000000000000000000000
Cisco-Guid: 1346736640-0000065536-0000177089-0545324554
Session-Expires: 1800
P-Asserted-Identity: "(Operator) Jared TAC" <sip:555666@10.1.1.60>
Remote-Party-ID: "(Operator) Jared TAC"
<sip:555666@10.1.1.60>;party=calling;screen=yes;privacy=off
Contact: <sip:555666@10.1.1.60:5060;transport=tcp>;isFocus
Max-Forwards: 70
Content-Length: 0

زيمرت جم انرب لىل ع ضوافتلا يف تلىش ف يتلا ةملاكملا يه هذه
زيمرتلا جم انرب نىي عت نكمي ال اذامل ف شتكنو SDP عم MS 200 OK لىل زف قن انوعد.

47540802.002 |10:40:29.819 |AppInfo |SIPTcp - wait_SdlReadRsp: Incoming SIP TCP message from
10.55.100.23 on port 5060 index 95625 with 1024 bytes:
[12124760,NET]
SIP/2.0 200 Ok
Via: SIP/2.0/TCP 10.1.1.60:5060;branch=z9hG4bK201ee04b9db528
To: <sip:4321@10.55.100.23>;tag=ds23933dcf
From: "(Operator) Jared TAC" <sip:555666@10.1.1.60;x-nearend;x-refci=71233302;x-
nearendclusterid=TACOp;x-nearenddevice=SEP002497A964CF;x-nearendaddr=555666;x-
farendrefci=71234316;x-farendclusterid=TACOp;x-farenddevice=10.15.255.254;x-
farendaddr=5255553333>;tag=3695142~47718da5-fef5-1f81-1709-6f389f40258a-71233612
Call-ID: 50459200-8261109d-125c82-2080fe0a@10.1.1.60
CSeq: 101 INVITE
Content-Length: 309
Contact: <sip:4321@10.55.100.23:5060;transport=tcp>
Content-Type: application/sdp
Allow: INVITE, BYE, CANCEL, ACK, NOTIFY, INFO, UPDATE
Server: MediaSense/10.x
v=0
o=CiscoORA 2153 1 IN IP4 10.55.100.23
s=SIP Call

```
c=IN IP4 10.55.100.23
t=0 0
m=audio 34370 RTP/AVP 102 0 8 9 18
a=rtpmap:102 MP4A-LATM/90000
a=fmtp:102 profile-level-id=24;object=23;bitrate=64000
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:9 G722/8000
a=rtpmap:18 G729/8000
a=recvonly
```

ةفرعمل فرعمل اذه عبتا. MediaManager: 847431 فرعم Cls. ير في شل طئ اسول لاصتا بلط
طئ اسول دادع| ةي ناكم| مدع ب بس.

```
47540844.001 |10:40:29.825 |AppInfo |ARBTry-ConnectionManager-
wait_MediaConnectRequest(71233611,71233612)
47540850.001 |10:40:29.826 |AppInfo |SIG-MediaManager-(847431)::wait_MediaConnectRequest,
CI(71233611,71233612), capCount(1,8), mcNodeId(0,0), xferMode(8,16), reConnectType(0), mrid (0,
0) IFCreated(0 0) proIns(0 0), AC(0,0), party1DTMF(1 3 0 0 0) party2DTMF(1 0 0 1
1),reConnFlag=0, connType(2,3), IFHand(0,0),MTP(0,0),MRGL(3cf3871c-f9ac-1a4b-9261-
105cb3c6cb79,17b41810-a72d-d2e0-be30-8dffe05ce048) videoCap(0 0), mmCallType(0),FS(0,0),
IpAddrMode(0 0) aPid(4, 242, 2044), bPid(4, 83, 215774) EOType(0 0) () honorCodec(0 0)
47540874.000 |10:40:29.829 |SdlSig |CACInfoRes |waitCACInfoRes |MediaManager(4,100,142,847431)
|ReservationMgr(4,100,111,1) |4,100,14,460202.37477^10.55.100.23^* |[R:N-
H:0,N:3,L:0,V:0,Z:0,D:0] CI= 0 aCI=71233611 bCI=71233612 pol=0 rsvpStatus=1 aVideoTrafficClass=0
bVideoTrafficClass=0 sessJoined=F staIdx_no_agent=0 locationstatus=( AudioBWReserved) eoSent=F
aAgent: confID =0 ci =0 capCt =0 reg= mtpType =2 agentCt =0 mmCapSet=0 agentAllo =0 RemoAgent=F
DevCap=0 ipAddrMode=0 bAgent: confID =0 ci =0 capCt =0 reg= mtpType =2 agentCt =0 mmCapSet=0
agentAllo =0 RemoAgent=F DevCap=0 ipAddrMode=0 aPort: NumPort =0 bPort: NumPort =0
otherAgentPort: NumPort =0
47540874.001 |10:40:29.829 |AppInfo |DET-MediaManager-(847431) - waitCACInfoRes_CACInfoRes-
qosType=0 videoEsc=0 mNoVideoResvAttempted=1 VideoCall=0
```

هذه نيبة ناثال في تبوليكي 8 صقأ دحك يتوصل تبال لدعم دوجوة قطنملا ةقالع يلمت
قطانملا.

```
47540874.002 |10:40:29.829 |AppInfo |DET-MediaManager-(847431)::waitCACInfoRes_CACInfoRes,
rsvp(0,0), E2E RegionBwKbps[ A=8 V = 384 I = 2000000000 ] ,deviceAcaps(0)
deviceBCaps(0),noVideoResv(1), mmAllowedCallType(0x00000000)
47540874.003 |10:40:29.829 |AppInfo |DET-MediaManager-(847431)::mapCapabilitiesToMMCallType -
Call is set to Audio Only - vidCall = 0)
47540874.004 |10:40:29.829 |AppInfo |DET-MediaManager-(847431)::buildMtpXcoderAllocList,
savedConnectionCount=0, QosType=0
47540874.005 |10:40:29.829 |AppInfo |DET-RegionsServer::matchCapabilities-- savedOption=3,
PREF_NONE, regionA=(null) regionB=(null) latentCaps(A=0, B=0) kbps=8, capACount=1, capBCount=8
47540874.006 |10:40:29.829 |AppInfo |DET-MediaManager-(847431)::checkAudioPassThru,
param(bPostMTPAllocation=0,chkTrp=1), capCount(1,8), mtpPT=1, aPT=2
```

فتاه وه اذه). (4,20)=G711 ulaw ل اهن ي عت متو LasVegas_Region ة قطنم نم Pty1 يتأت
(ل يكي).

(MS SIP لاصتا طخ وه اذه). تان اكم| 8 اهي دل و SignalHill_Region نم PTY2 يتأت

```
47540874.007 |10:40:29.829 |AppInfo |DET-MediaManager-(847431)::preCheckCapabilities,
region1=LasVegas_Region, region2=SignalHill_Region, Pty1 capCount=1 (Cap,ptime)=(4,20), Pty2
capCount=8 (Cap,ptime)=(44,0) (4,20) (2,20) (6,20) (11,20) (12,20) (15,20) (16,20)
47540874.008 |10:40:29.829 |AppInfo |DET-RegionsServer::matchCapabilities-- savedOption=0,
PREF_NONE, regionA=(null) regionB=(null) latentCaps(A=0, B=0) kbps=8, capACount=1, capBCount=8
47540874.009 |10:40:29.829 |AppInfo |RegionsServer: applyCodecFilterIfNeeded - no codecs
remained after filtering so restored original 0 caps
```

64 تبال لدعم مدختسي G711 ulaw نأل ارظن تان اكم ل افي قباط مدع كانه

تاقال ع حيصتو. لابق تس/الاسرا زاهج اعادتسإ CUCM لواحي ك لذل، ةيناث/تبولي ك
ةلكشم ل ليزي ةقطنم ل

```
47540874.010 |10:40:29.829 |AppInfo |DET-MediaManager-(847431)::preCheckCapabilities, caps  
mismatch! Xcoder Req'd. kbps(8), filtered A[capCount=0 (Cap,ptime)=], B[capCount=4 (Cap,ptime)=  
(11,20) (12,20) (15,20) (16,20)] allowMTP=0 numXcoderRequired=1 xcodingSide=1  
47540874.011 |10:40:29.829 |AppInfo |DET-MediaManager-(847431)::prepareInitialConnectionList,  
Party1CapCount=1 Party2CapCount=8 XcoderRequired=1 xcodingSide=1 allowMTP=0
```

ل دعم لى صقألا دحل اب حامس ل ل CUCM ي ةقطنم ل ةقال ع حيصت ب ج ي، ةلكشم ل هذه ل حل
ل ةديج ةقطنم عاشن إ نسحتس م ل نم. ل قألا لى ل ةيناث/تبولي ك 64 - قطنم ل ني ب ت ب ل
ل دعم ةدايز ك ل ع ب ج ي هنا ءانثتس اب ةم ي دق ل ل ةقطنم ل س فن نوكت ل اهن ي وكت ب مق MS.
م دختست قطنم ي ا ةدايز ب ج ي هنا نم دكأتو، ل قألا لى ل ةيناث/تبولي ك 64 لى لى صقألا ت ب ل
خسنا. ل قألا لى ل ةيناث/تبولي ك 64 لى لى صقألا ت ب ل ل دعم ل ةيضا رت فالا م اظن ل ا تاداع
لى ل ةديج ل ل ةقطنم ل ني عت ب مقو، MS SIP ل اصتا طخ لى ل عني عت مت ي ذل ا ءزهجألا عمجت
MS SIP ل اصتا طخ ني عت ةداعو، MS SIP ل اصتا طخ لى ل ءزهجألا عمجت ني عتو، اذه ءزهجألا عمجت
SIP.

ةكرتشم ري فشت جمارب

ف CAP = codex = ةينام إال = ثي ح، (Cap,Ptime) ج ذوم ن ل ي ف زي مرت ل ا جمارب درس متي، CUCM ي ف
ل قح ي ف اهتي فور كن كم ي يت ل ا ءما ل ا تار فشم ل اب ةم ئاق ي ل ي ام ي ف. ةمزح ل ا تقو و ptime =
"ب ا ك":

```
G711 Alaw with 64 kbps bit rate = 2 G711 Ulaw with 64 kbps bit rate = 4 G722 with 64 kbps bit  
rate = 6 G722 with 56 kbps bit rate = 7  
G722 with 48k kbps bit rate = 8  
G728 = 10  
G729 = 11  
G729 Annex A = 12  
G729 Annex B = 15
```

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسمل اذ ه Cisco ت مچرت
ملاعلاء نأ عي مچ ي ف ن ي م دخت سمل ل معد ي و تح م مي دقت ل ة ي رش ب ل و
امك ة ق ي قد ن و ك ت ن ل ة ي ل ة مچرت ل ض ف أن ة ظ حال م ي ج ر ي . ة ص ا خ ل م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه
ي ل ا م ئ ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص أ ل ا ي ز ي ل ج ن إ ل ا دن تسمل ا