# فاشكتساو نيوكتلاو تيبثتلا ةيفيك SIP ليمع اريماك قيبطت - اهحالصإو ءاطخألا

## تايوتحملا

قمدقملال المحليل قمدق المالي المحليل المالي الممالي الممالي المالي المالي المالي ا

## ەمدقملا

ەلابقتساو توصلا لاسرا نم IP ارىماك نكمي يذلا SIP لىمع قىبطت دنتسملا اذە فصي توصلI P ارىماك ضرعت .Cisco Unified Communications Manager لىثم يجراخ SIP لىمع زاەج نم لالخ نم توصلI P ارىماك لسرت .اەب ةلصتملا ةيجراخلا توصلا تاربكم ىلع ەاقلتت يذلا .يجراخلا وأ يلخادلا اەنوفوركىم

## ةيساسألا تابلطتملا

## تابلطتملا

:ةيلاتا عيضاوملاب ةفرعم كيدل نوكت نأب Cisco يصوت

- VSM 7.6 اريماكلا قيبطت ، ثدجألا تارادصإلاو SIPClient\_V2.X.cpk 2.2v زارط ، 2.8v وأرط ، 2.8v وأي الع اريماكلا 2830، 2835، 3520، 3535، 6000P، 6020، 6030، 6400، 6400E، 6500PD، 6930، 7030، 7030E 7530pd، 7070، 3050، CUCM، تارادصإلى لوكوتورب فتاه شردحألا .
- . ةيجراخلا توصلا تاربكمو يجراخلا نوفوركيملا ليصوتل اريماكلاب ةزهجألا لاصتا •
- CUCM، تنرتنإلا لوكوتورب فتاه
- ثدحأ رادصإ وأ IPICS 4.7 •

### ةمدختسملا تانوكملا

تباث جمانرب ثدحاً عم VSM 7.8 رادصإلاا ىلإ دنتسملا اذه يف ةدراولا تامولعملا دنتست 2.8 رادصإلا اريماكل

ةصاخ ةيلمعم ةئيب يف ةدوجوملا ةزهجألاا نم دنتسملا اذه يف ةدراولا تامولعملا ءاشنإ مت. تناك اذإ .(يضارتفا) حوسمم نيوكتب دنتسملا اذه يف ةمدختسُملا ةزهجألا عيمج تأدب ءارجإ يأل لمتحملا ريثأتلل كمهف نم دكأتف ،ةرشابم كتكبش.

## اريماكلا قيبطت تيبثت ءارجإ

الوخدلال ليجست .1 ةوطخلا VSOM.

**اريماكلا قيبطت< ماظنلا دادعإ** ىلإ لقتنا .2 ةوطخلا.

:ةروصلا يف حضوم وه امك ، **ةفاضإ** يف رقنا .3 ةوطخلا

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| Partie a   | Version |
| AcovityDetection   | 242     |
| auticAralyticsAppression   | 3.5     |
| audioAnalyticsCarAlarm   | 1.5     |
| authAnalytiaCarAlpre   | 3.3     |
| autoAnalytisDamo   | 8.8     |
| audioAralytics/GaseBreak   | 1.1     |
| audioAnalyticalismation  | 3.8     |
| audioAnalyticaEsurvation   | 3.3     |
| LineCrossing   | 2.4.2   |
| hates  | 21      |
| Otgaet/Taken   | 2.4.2   |
| and the second s |         |

ال اثمل اليبس ىلع) يلحملا رتويبمكلا نم SIPClient قيبطت ضرعتسا .4 ةوطخلا، SIPClient\_V2.X.cpk)

| Sauliere Sauliere Sauliere   |          |  |      |  |  |
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| Car Laws T   | - 11<br> |  |      |  |  |

**جذومن** ددح ،طبارلا اذه يف رقنا .cisco.com بيولا عقوم ىلع اريماكلا تاقيبطت رفوتت قيبطتلا ليزنتب مق .**ip اريماك تاودأو قيبطت** عون جمانربلا مث بولطملا **اريماكلا** بولطملا.

(<u>https://software.cisco.com/download/navigator.html?mdfid=282090226&flowid=50644</u>)

VSOM ةطساوب اهترادإ متت يكل "اريماكلا بلاق" ىلع اريماكلا تاقيبطت نيكمت بجي ،نآلا

:ةروصلا يف حضوم وه امك ،**اريماكلا بلاق<بلاقلا<تاريماكلا** ىلإ لقتنا .5 ةوطخلا

|   | 1                        | General Streaming,                                    | Recording and Events   |                         |      |
|---|--------------------------|---|--|-------------------------|------|
| Avesocated     Location:     Avesocated     Location:     Model Name: disc_7030E     Firmmane Version:     Autor:     Autor: disc_7030E     Firmmane Version:     Autor: disc_7030E     Fir |                          | Basic Information<br>• Template Name:<br>Description: | Basic Information  • Template Name: 7030E - SIP Clean Description: |                         |      |
| Immutation -     Model Name::     0502_7030E       2     Care, 6000     Firmware Version:       3     Care, 5400E     Firmware Version:       4     NTSC General: Low Device To     S       5     ANTSC General: Low Device To     S       6     FAL General: Low Device To     S       7     ANTSC General: Low Device To     S       8     FAL General: Low Device To     S       9     FAL General: Medium Device     S       9     FAL General: Medium Device     SCR, Vorsion: I       9     SP APCS     SSP APCS       1     SSP APCS     SSP APCS   |                          | Ansociated     Location:                              | India  |                         |      |
| 2     Care, 6034       3     Care, 5400E       6     NTSC General: High Device T.       6     NTSC General: Low Device Te       8     NTSC General: Low Device Te       8     PAL General: Low Device Te       9     PAL General: Low Device Te       9     PAL General: Might Device Te       9     PAL General: Motion Device       9     PAL General: Motion Device       1     SP PAC       1     SP PAC       1     SP PAC   | alten -                  | Model Name:   | cisca 7030E  |                         |      |
| Antipic Generation High Davker T.     Antipic Generation Law Davker Te     School Law Davker Te     School Law Davker Te     Antipic Generation Law Davker Te     School Law Davker Te | 6639<br>6430E            | Firmware Version:                                     |  |                         |      |
| Antific Generic Medium Device     Antific Generic High Device Tax     Antific Generic High Device Tax     Antific Generic High Device     Antific High De | C Generic High Device T  | Matter .  | Version License  | 10000                   |      |
| All General High Device Tax     All General Loss Device Tax     All General Loss Device Tax     All General Medium Device     Set PRCS     Set  | C Generic Medium Devic   | E audioAnalytica                                      | 3.3 AA-05  | Nation -                |      |
| B PAL Generic Los Device Tess     Devices     Device Tess     Device Tess     Device Tess     Device Tess | Generic High Device Te   | autoAnatytes  | 3.3 AA-05  | A Annon I               |      |
| B PAL Generic Medium Device     AnApp 2.1 CSC0_APP1 SCR Version 1     SiP-BPCS X1D Version 2.4.2 TextIndustee     X1D Version 1     Mill Clevel     TextIndustee     X1D Version 1     Mill Clevel     TextIndustee     X1D Version 1   | General Low Device Text. | E LineCrossing  | 2.4.2 Tertistuvisie  | Version :               |      |
| 1 SP-BPC5 DigetTaken 2.4.2 Tertiskvide XLD Vorsion  <br>1 Mil Class 2.3 DICO APP2 Management Volses   | Generic Medium Device    | E heatop  | 2.1 CSCO_APP1  | SEOK Version :          |      |
| 1 AM Claud  | KS .                     | CityouTaken   | 2.4.2 Tertistyvisie  | X5D Version :           |      |
| an Class  | land                     | C SPCiest   | 2.2 CBCO_APP2  | Meguires Video :        | 7616 |
| Test 123     Video Encoding   | 23                       | SINCHAM   | 24   | Video Encoding (        | 1011 |
| 8 test TCS V 2 StPylee 44 Requires Audia :  | cs v                     | C SPyldee   | 4.4  | Requires Audia ;        | N/A  |
| Tan In. SPYder 34 Audio Sample Frequency  | Tutol 15                 | E SPydee  | 3.4  | Audio Santila Francisco | NA   |

قيبطت ددح .6 ةوطخلا SIPClient.

.**ظفح** ةقطقط .7 ةوطخلا

قوف رقناو SIPClient **قيبطت** ددجو **،اريماكلا قيبطت<ماظنلا دادعإ** ىلإ لقتنا .8 ةوطخلا ةروصلا يف حضوم وه امك ،**تيبثت**:

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|  |                       | Western I  | 14   |                             | 010-95-800 |                   |  |                    |
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| the manufacture  |                       | and second second  | 1.0  |                             | 013/01488  |                   |  |                    |
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ىلع يوتحت ال يتلاا اريماكلا درسل **تبثملا ريغ اريماكلا قيبطت** نم ققحت .9 ةوطخلا ليمع قيبطت SIP.

ديدحت نكمي) اەتيبثت ىلإ تاقيبطتلا جاتحت يتلا اريماكلا زارط ددح ،نآلا. 10 ةوطخلا ق**فاوم** قوف رقناو (ةددعتم تاريماك.

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تيبثت متيو ،اريماكلا ىلإ قيبطتلاو نيوكتلا تانايب عفدب VSOM موقي ،نآلاو تباثلا جمانربلا رادصإو اريماكلا قفاوت ىلإ ادانتسا اريماكلا ىلع تاقيبطتلا.

اريماكلا ىلع اريماكلا تاقيبطت تيبثت لامتكا ىلإ اذه يدؤي.

## SIP ليمع قيبطت عم مادختسالل Cisco CUCM نيوكت

### اريماكلا قيبطت مادختساب CUCM نيوكت ءارجإ

ىلإ اريماكلا نم توصلا قفدتل SIPClient قيبطت مادختسإ نكمي ،نيوكتلا اذه لالخ نم سكعلا وأ IP فتاه.

اريماكلاب بيولا ربع (GUI) ةيموسرلا مدختسملا ةهجاو ىلإ لوخدلا ليجست .1 ةوطخلا

.قىيبطتلا دادعإ <تاقىبطتلا ةرادإ<دادعإلا ىل لقتنا .2 ةوطخلا

:ةروصلا يف حضوم وه امك ،**نيوكت** رقناو SIPClient ددح .3 ةوطخلا

| C there bet a          | Camera Applications Hanaged by Claco Video Surveillance Hanager |                                    |                          |   |  |  |  |  |  |
|------------------------|---|------------------------------------|--------------------------|---|--|--|--|--|--|
| · Change bronger       | Application brokenedies   |                                    |                          |   |  |  |  |  |  |
| T Application Processo | Application participation from the Name                         |                                    | -                        |   |  |  |  |  |  |
| 1. And storten         | Installed Application and                                       |                                    |                          |   |  |  |  |  |  |
|                        | ··  | lans<br>Lansana, Aurong<br>In      | (1000, ant) -            | No. 100 No. 10<br>10 No. 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | 1999au, 51.4 ga, 5845 4 51, 584-0 107 (5 10 10   |  |  |  |  |
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قيبطت نيوكت ةحفص يف ةبسانملا ميقلا لخدأ ،ةروصلا يف حضوم وه امك .4 ةوطخلا SIPClient.

| _                     |               | - |            |  |
|-----------------------|---------------|---|------------|--|
| Oebug Leveli          | Nevre         |   |            |  |
| App Mode:             | OLIOM         |   |            |  |
| Connection Check Time |               |   | Audio Gain |  |
| SIP Server            | 10.105.138.48 |   |            |  |
| UserName              | 6005          |   | Password   |  |
|                       | Dave          |   | French     |  |

- CUCM قيبطتلا عضو •
- CUCM IP ناونع SIP مداخ •
- تحت ەاندأ ەؤاشنإ مت ،CUCM نم رورملا ةملكو يئاەنلا مدختسملا مسا مدختسملا مسا 15 - ةوطخلا

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CUCM ىلإ لوخدلا ليجست .5 ةوطخلا
```

معدي نأ Cisco Unified Communications Manager ىلإ اريماك ةفاضإ حيتت :**قظحالم** بجي .فتاهك زاهجلا ةفاضإب موقت ،اريماك ةفاضإب موقت امدنع .اريماكلا اذه قيبطتلا قيبطت ليغشت ىلع لمعتس اريماك لك ةفاضإ

اديدج فضأ مث ،فتاهلا<زاهجلا</mark> ىلإ لقتنا .6 ةوطخلا

**(مدقتم) ثلاثارا ءزجلا نم SIP زامج** ددح ،**فتامالا عون** نم .7 ةوطخلا

.IP اريماكب صاخلا MAC ناونع لخدأ ،زامجلا تامولعم ةقطنم .8 ةوطخلا

ةوطخلاا SIP قام الله من الله م (مدقتم)

**يسايقلا ماعلا فتاهلا فيصوت** ددح ،ماعلا فتاهلا فيصوت يف .10 ةوطخلا

**SIP زامج** زامجلا نامأ فيرعت فلم ددحي ،**لوكوتوربلاب ةصاخلا تامولعملا** يف 11 ةوطخلا **قيجراخ ةمج جاتناٍ نم مدقتملا**.

.**ةبولطملا طئاسولا ثب ةطقن** نم ققحت .12 ةوطخلا

ةيضارتفالا تادادعإلا ةفاك ءاەنإ .13 ةوطخلا.

| Device Protocol: SIP  | Device (Advanced)  |   |
|---|--|---|
| Real-time Device Status   |  |   |
| Registration: Registered with C<br>IPv4 Address: 10.105.139.110<br>Active Load ID: None<br>Download Status: None  | Isco Unified Communications Manager CUCH-10  |   |
| Device Information  |  |   |
| Device is Active  |  |   |
| A Device is not trusted   |  |   |
| MAC Address*  | 002280F87CAF   |   |
| Description   | 1P Camera  |   |
| Device Pool*  | Default  | Vew Details                             |
| Common Device Configuration   | < None >   | View Details                            |
| hone Button Template*   | Third-party SIP Device (Advanced)  | 0                                       |
| Common Phone Profile*   | Standard Common Phone Profile  | Vew Details                             |
| Calling Search Space  | < None >   | 8                                       |
| WR Calling Search Space   | < None >   |   |
| fedia Resource Group List   | < None >   | 8                                       |
| ecation*  | Hub_None   | 0                                       |
| WR Group  | < None >   | 8                                       |
| Nevice Mobility Mode*   | Default  | S View Current Device Mobility Settings |
| Nener   | O User O Anonymous (Public/Shared Space)   |   |
| wher User ID*   | 6005   | B                                       |
| se Trusted Relay Point*   | Default  |   |
| ways Use Prime Line*  | Default  | B                                       |
| ways Use Prime Line for Voice Messa   | 99* Default  | Ð                                       |
| Replacation   | < None >   |   |
| Retry Video Call as Audio   |  |   |
| Ignore Presentation Indicators (int   | emai calis only)   |   |
| C Logged Into Hunt Group  |  |   |
|   |  |   |
| Remote Device   |  |   |
| Remote Device Number Presentation Transformat Caller ID For Calls From This Pho Calling Party Transformation Clif Use Device Post Calling Party Tra   | Nen  |   |
| Remote Device Number Presentation Transformat Caller ID For Calls From This Pho Calling Party Transformation CSS Use Device Poel Calling Party Tra Remote Number  | ten<br>- Norm >  |   |
| Remote Device Number Presentation Transformat Caller ID For Calls From This Phy Calling Party Transformation CSS Use Device Poet Calling Party Tra Remote Number Calling Party Transformation CSS   | ten  |   |
| Remote Device Rumber Presentation Transformat Caller ID For Calls From This Phy Calling Party Transformation Clis Use Device Pool Calling Party Tra Remote Number Calling Party Transformation Clis Use Device Pool Calling Party Tra   | Sea<br>- None >  -  -  -  -  -  -  -  -  -  -  -  -  -   |   |
| Remote Device Number Presentation Transformat Caller ID For Calls From This Pho Calling Party Transformation CSS © Use Device Pool Calling Party Tra Remote Number Calling Party Transformation CSS © Use Device Pool Calling Party Tra Protocol Specific Information   | Nen  |   |
| Remote Device Remote Device Remote Presentation Transformat Cating Party Transformation CIS Cating Party Transformation Transforma | Nen Sen Sen Sen  Contract on CSS (Caller ID For Calls From This Phone)  Chone >   Conformation CSS (Device Motellity Related Information)  Conformation CSS (Device Motellity Related Information)   |   |
| Remote Device  Number Presentation Transformat Cation ID For Calls From This Pre Cating Party Transformation CIS  Use Device Pool Cating Party Tra Remote Number Cating Party Transformation CIS  Cuton Device Pool Cating Party Tra Protocol Specific Information ILF Presence Group*  Proto Ecoupty Protie*  Device Security Protie*  | Item   |   |
| Remote Device  Rumber Presentation Transformat  Calling Party Transformation CIS  Use Device Pool Calling Party Tra  Remote Number  Cating Party Transformation CIS  Use Device Pool Calling Party Tra  Protocol Specific Information  ILF Presence Group*  Protocol Specific Information  Protocol Specific Info  | Sea<br>Intel<br>C filters > 0<br>Intelformation CSS (Calter ID For Calts From This Phone)<br>C formers > 0<br>Intelformation CSS (Device Motality Related Information)<br>Intel party SIP Device Advanced - Standard SIP N<br>Tepne > 0<br>Tepne > 0<br>1  |   |
| Remote Device  Rumber Presentation Transformat  Calling Party Transformation CIS  D Use Device Pool Calling Party Tra  Remote Number  Calling Party Transformation CIS  G Use Device Pool Calling Party Tra  Protocol Specific Information  If Presence Group*  FP Preterred Originating Codec*  Device Security Profile*  SubSCRIDE Calling Search Space  c  | See  |   |
| Remote Device  Rumber Presentation Transformat  Caller ID For Calls From This Phy Calling Party Transformation CIS  Use Device Pool Calling Party Tra  Remote Number  Calling Party Transformation CIS  Calling Party Transformation CIS  Calling Party Transformation CIS  Rumote Number  Calling Party Transformation CIS  Rumote Number  Calling Party Transformation  If Presence Group*  Sponst Versence Calling Search Space  SpP Profile*  Space User  Calling Search Space  SpP Profile*  Space Calling Search Space  SpP Profile*  Space User  Calling Search Space  SpP Profile*  Calling Search Space    | Sea  | n Datalis                               |
| Remote Device  Rumber Presentation Transformat  Caller ID For Calls From This Phy Calling Party Transformation CIS  Use Device Pool Calling Party Tra  Remote Number  Calling Party Transformation CIS  Use Device Pool Calling Party Tra  Protocol Specific Information  If Presence Group*  Protocol Security Profile*  Physics Security Profile*  SubSCRIBE Calling Search Space  SDP Profile*  Device Team (Security Profile)  Calling Search Space  Calling Search Spac  | Sen<br>- None > C<br>- | n Ostella                               |
| Remote Device  Remote Device  Remote Device  Remote Device Pool Calling Party Transformation CSS  Calling Party Transformation CSS  Remote Number  Calling Party Transformation CSS  Colling Party Transformation CSS  Device Device Pool Calling Party Transformation  Remote Number  Calling Party Transformation  Remote Specific Information  Remote Specific Information  Remote Security Profile  SubSCRUE Calling Search Space  SP Profile  Spect User  Media Termination Point Required  Unattended Port  | Nen  | n Datalia                               |
| Remote Device  Remote Device  Remote Presentation Transformat  Calier ID For Calie From This Pre Caling Party Transformation CSS  Use Device Pool Caling Party Tra  Remote Number  Caling Party Transformation CSS  Use Device Pool Caling Party Tra  Remote Number  Caling Party Transformation  RF Presence Group*  Protocol Specific Information  RF Presence Group*  Protocol Security Profile  Profile Profile Profile  Profile Profil  | Nen  | • Datalla                               |
| Remote Device  Remote Device  Remote Presentation Transformat  Caller ID For Calls From This Phy Caling Party Transformation CIS  Caling Party Transformation  Ref Presence Group*  Protocol Specific Information  Allow (Applicable Media  Provide Media  Prove Color Protocol  Pro  | None > CSS (Celler ID For Cells From This Phone) < None > C indemediate CSS (Celler ID For Cells From This Phone) < None > C indemediate Device Mobility Related Information)  Index Index SIP Device Advanced - Standard SIP N  None > C index SIP Profile SIG  | s Details                               |
| Remote Device  Remote Device  Remote Presentation Transformat  Calling Party Transformation CIS  Protocol Specific Information  If Presence Group*  Protocol Specific Information  If Presence Group*  Protocol Specific Information  If Presence Group*  SuBSCRIDE Calling Search Space  SuBSCRIDE Calling Search Space  SuBSCRIDE Calling Search Space  Calling Calling Search Space  Calling Calling Search Space  Calling Calling Search Space  Calling Protie*  Calling Calling Search Space  Calling Search Space  Calling Search Space  Calling Search Space  C  | None > Constant of the second  | n Dataila                               |
| Remote Device  Rumber Presentation Transformal  Callier ID For Calls From This Phy Calling Party Transformation CIS  Duse Device Pool Calling Party Tra  Remote Number  Cating Party Transformation CIS  Calling Party Transformation CIS  Calling Party Transformation CIS  Rumote Number  Calling Party Transformation  Ruf Presence Group*  SUBSCIDE Calling Search Space  SUB Profile*  Rumote View  Calling DTMF Reception  Allow Presentation Sharing using R  Allow Presentation Sharing   | Sen<br>- None > C<br>- | * Ostella                               |

.**يئاەن مدختسم** ةفاضإ .14 ةوطخلا

كلإ يئاەنلا مدختسملا ةفاضإ حيتت :**قظحالم** Cisco Unified Communications Manager كار مدختسملا قفاضإ حيتت Cisco Unified جمانرب مادختساب ليجستلا ةيناكمإ اريماكب يئاەنلا مدختسملا نارقإو مدختسم ءاشنإب Cisco يصوت .SIP ليمع قيبطت ليغشتل Communications Manager يامن .اريماك لكب يئاەنلا مدختسملا اذه نارقإو دحاو يئاەن

### ديدج ةفاضإ**<يئاەن مدختسمك مدختسملا ةرادإ** ىلإ لقتنا. 15 ةوطخلا.

| User Information           |   |   |
|----------------------------|---|---|
| User Statue                | Active Local User   |   |
| User ID*                   | 6005  |   |
| Password                   |   | Edit Credential   |
| Confirm Password           |   |   |
| Self-Service User 1D       | 6005  |   |
| PIN                        |   | Edit Credential   |
| Confirm PIN                |   |   |
| Last name*                 | Camera  |   |
| Hiddle name                |   |   |
| First name                 |   |   |
| TEle                       |   |   |
| Directory URL              |   |   |
| Telephone Number           | 6005  |   |
| Home Number                |   |   |
| Hobile Number              |   |   |
| Pager Number               |   |   |
| Mail ID                    |   |   |
| Manager User ID            |   |   |
| Department                 |   |   |
| User Locale                | < None >  | 1   |
| Associated PC              | and the second se |   |
| Digest Credentials         |   |   |
| Confirm Digest Credentials |   |   |
| User Profile               | Use System Default( "Standard (Factory Default) 1   | View Details  |
| Service Settings           |   |   |
| Mome Cluster               |   |   |
| Enable User for Un         | ified CM IH and Presence (Configure IH and Presence )   | n the associated UC Service Profile)                        |
| Include meet               | ing information in presence(Requires Exchange Presen  | ce Gateway to be configured on CUCH 3M and Presence server) |
| UC Service Profile         | Use System Default  | View.Detaila  |

قيبطت يف هذه مدختسملا تانايب مادختسإ بجي) رورملا ةملكو مدختسملا فرعم ةفاضا (اريماكلا

**ةلئاعلا مسا ،رورملا ةملك ،مدختسملا فرعم** ةفاضإ .16 ةوطخلا

ظفحاو MAC اريماكلا ددح .زاهجلا نارتقا يف رقنا ،زاهجلا تامولعم يف .17 ةوطخلا متي يتلا ةزهجألا ىلع ضرعلل الباق MAC ناونع نوكي نأ بجي مث ،تارييغتلا/ددحملا اهب مكحتلا

.**ظفح** يف رقنا .18 ةوطخلا

| Device Information               |                         |   |  |
|----------------------------------|-------------------------|---|--|
| Controlled Devices S             | EPO022BDF87CAF          |   | Device Association<br>Line Appearance Association for Presence |
| Available Profiles               |                         |   |  |
| CTI Controlled Device Profiles   | **                      |   |  |
|                                  |                         |   | X  |
| Extension Mobility               |                         |   |  |
| Available Profiles               |                         |   |  |
|                                  |                         |   |  |
|                                  | **                      |   |  |
| Controlled Profiles              |                         |   | ×  |
| Default Profile                  | Not Selected            | 8 |  |
| BUF Presence Group*              | Standard Presence group | B |  |
| SUBSCRIBE Calling Search Space   | C < Note >              | B |  |
| Allow Control of Device from     | CTI Control             |   |  |
| - Endore Extension Probility Cri | na unoter               |   |  |
| Directory Number Association     |                         |   |  |
| Primary Extension 6005           |                         |   |  |
| Mobility Information             |                         |   |  |
| C Enable Mobility                |                         |   |  |
| C Enable Mobile Voice Access     |                         |   |  |
| Plaximum wat Time for Desk Pk    | xup 10000               |   |  |

.اريماكلل MAC ناونع<فتاهلا<زامجلا</mark> ىلإ لقتنا. 19 ةوطخلا

.مدختسملا < كلاملا ىلإ لقتنا ،زاهجلا تامولعم يف .20 ةوطخلا

مت) **مدختسملا فرعم** ددح ،**كلاملا مدختسملا فرعم** يف رقنا ،زاهجلا تامولعم يف 21 ةوطخلا (15 ةوطخلا نم هؤاشنا).

تناك اذإ ام ديكأت .رمألاا مزل اذإ نيوكتلاا طبض ةداعإ) .**ەقيبطتو نيوكتلا ظفح** .22 ةوطخلا ل ةلجسم اريماكلا

ىلا SIP ءدبل ىرخأ ةرم اريماكلا قيبطت ةئيەتل اريماكلا قيبطت **فاقي/ءدب** .23 ةوطخلا CUCM.

زاهجلا ىلٍ اريماكلا نم ويديفلا/توصلا قفد أدبيس ،Pا فتاه نم 6005 بلطا .24 ةوطخلا يفرطلا IP).

## SIP ليمع قيبطت عم مادختسالل Cisco IPICS نيوكت

### IPICS ىلع VTG و ويدارلاو ةانقلا نيوكت ءارجا

مداخ مدختسي ىتح IPICS مداخ ىلع VTG و Radio و Channel نيوكت يف ةسلجلا هذه دعاست ىلإ امو IDC و ويدارلا ىلإ اريماكلا تاقيبطت نم SIP ءاشنإل تانيوكتلا هذه UMS ..كلذ IPICS. ةرادإ ةحفص ىلإ لوخدلا ليجست .1 ةوطخلا

**.يكلسال** ةقطقط .أ مداخلا نيوكت .2 ةوطخلا

نول ةجردب هيف مكحتم ويدار ةفاضإ ددح .**(Add) ةفاضإ** قوف رقنا .3 ةوطخلا.



ليصافتلا لخدأ .4 ةوطخلا.

ثبلا عمجت نم اءزج لكشي ال اناونع ددعتملا ثبلا ناونع نوكي نأ بجي :**قظحالم** ددعتملا.

| General Information             | Ops Views                  |
|---------------------------------|----------------------------|
| Name.* Carrora - 1              | Belange To: SYSTEM         |
| Radio Type * DIU Example        | Restrictions               |
| Description                     | Allow association to users |
| atus: Active                    |                            |
| ontent Source Information       |                            |
| Location:* ALL                  |                            |
| Multicast Address:* 239.192.1.1 |                            |
| Multicent Port:* 21000          |                            |
| Codec:* 6.711                   |                            |
| Secure Radio:* No               |                            |
| Valce Delay * 0 (maec)          |                            |
| Hangover Time: * 200 (meec)     |                            |

ةانقلا هذه نم اءزج اونوكي نأ بجي نيذلا نيمدختسملا ددح .تانارتقا قوف رقنا .5 ةوطخلا.

| An Persperset  |                      |  |           |  |            |                    |           |       |      |  |
|--|----------------------|--|-----------|--|------------|--------------------|-----------|-------|------|--|
| A lost taleasted   | 2 teres              |  |           |  |            | - Danie (La ville) | C Apach & | - 749 | 6.14 |  |
| of Real Property lies  | Low York             |  | and lines |  | And Server |                    |           | linia |      |  |
| Channels   | - are are            |  |           |  |            |                    |           | -     |      |  |
| National Extension<br>Million<br>Million<br>Anticent<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Million<br>Mi | All the last himself |  |           |  |            | Nap.               | 1.41      |       |      |  |

:ةروصلا يف حضوم وه امك ،ةمولعم VTG لا لخدأو **فيضي** ةقطقط ،ةرادإ VTG لدان .6 ةوطخلا

| tual Talk Groups | Filter: VTG Name                | Go Cear Filter |          |
|------------------|---------------------------------|----------------|----------|
|                  | 101 W                           | G Name         | Status   |
|                  | C tablest                       |                | Inactive |
|                  | talkine2                        |                | Inactive |
|                  | C tabled                        |                | Inactive |
|                  | tabled                          |                | Inactive |
|                  | O 1011                          |                | Inactive |
|                  | ¥10-2                           |                | Inactive |
|                  | <ul> <li>C XTE-Selle</li> </ul> |                | Inactive |
|                  | VID-Adds - 1                    |                | Active   |

نيكراشملا ددح ،ةروصلا يف حضوم وه امك .7 ةوطخلا.

| * * The Bacagement  | Contraction of the Owner of the |                       |
|---------------------|--|-----------------------|
| ether fait times    | Linese Line: Automate  |                       |
|                     | THE R D  | West thereas a factor |
|                     | Participants   | Anatomia              |
|                     | W Area 1   | (control)             |
|                     | Latera lare text   | A Cat Care            |
|                     | 1 next rate Indel  | 3 Uf Oand I           |
|                     |  |                       |
|                     |  |                       |
|                     | 1  |                       |
|                     | 1  |                       |
|                     | 1  |                       |
|                     |  |                       |
|                     |  |                       |
|                     |  |                       |
|                     |  |                       |
| a of the Helegeret  |  |                       |
| a & the Response    |  |                       |
| · A Conference      |  |                       |
|                     | New Green Destinate (75) Reactions (75)  |                       |
| P. P. Announcements |  |                       |

لاصتالل ويدارلاو نيمدختسملاو ةانقلا يقلأو بحسا .نيكراشملا ديدحت .8 ةوطخلا ضعبلا مەضعبب.

.يلعافت VTG / طيشنتو ظفح رقنا .9 ةوطخلا

وأ IP اريماك نم ثبلا ءدبو IDC - IPICS Dispatch Console ىلإ لوخدلا ليجست .10 ةوطخلا .هيلإ عامتسالا

## IPICS (UMS) مادختساب اريماكلا قيبطت نيوكت ءارجإ

ربع اريماكلاب ةصاخلا (GUI) ةيموسرلا مدختسملا ةهجاو ىلإ لوخدلا ليجست .1 ةوطخلا بيولا.

. قي بطتلا دادعا لالخ نم تاقي بطتلا قرادا لالخ نم دادعا على القتنا. 2 قوطخلا

.**نيوكت** قوف رقناو SIPClient ددح .3 ةوطخلا

| C famore lattap                   | The page depines had of applications included on spream. It pass private to perform different operations and its application antitrap.   |  |  |  |  |  |  |
|-----------------------------------|--|--|--|--|--|--|--|
| a gran                            | Camera Applications Managed by Cisco Video Surveillance Manager  |  |  |  |  |  |  |
| C Los bour                        | Application Installation   |  |  |  |  |  |  |
| T Application Manager             | Aphrate pelage from . No fit attends to an   |  |  |  |  |  |  |
| C Configuration<br>F Age Literate | Transfer Australian Ltd  |  |  |  |  |  |  |
| C NEMU                            | 3013   |  |  |  |  |  |  |
|                                   | Description         Lot between         Non-Lot  |  |  |  |  |  |  |
| 13 Adventution<br>12 Martin       | O         addressingness         3.3         Dest<br>bases, jc;         header         M. M.         2         No. 10         Addressing resourt, VS.140, 3049 (A.33, 2014) (   |  |  |  |  |  |  |
|                                   | C automotication 33 Dee Sector 44.04 C Science and an automotication 30.040 (2010) 10.00 (2010)  |  |  |  |  |  |  |
|                                   | Agenesis Carly As To second Se |  |  |  |  |  |  |
|                                   | Performance     Children of Audions will need Application Resigns antitraps to Solivy default. 3 will also infrees at the applications method on camera with their antitraps.  |  |  |  |  |  |  |
|                                   | CNUTION Is not form of an meet comes when are spectrum is in program. It must take a few minutes to compare.   |  |  |  |  |  |  |

.SIPClient قيبطت نيوكت ةحفص يف ةبسانملا ميقلا لخدأ .4 ةوطخلا

|      |                       | Save          |   | Reset      |       |
|------|-----------------------|---------------|---|------------|-------|
|      | SIP Server            | 10.105.139.46 |   | Channel #  | 11203 |
|      | Connection Check Time | 30            |   | Audio Gain | 15    |
|      | App Mode:             | UMS           | ۵ |            |       |
|      | Debug Level:          | None          |   |            |       |
| ciso | Cisco SIP Clie        | ent App       |   |            | Help  |

اريماكلا نم توصلا ثبل SIPClient قيبطت مدختسي ،هالعأ دراولا نيوكتلا يف :**قظحالم** كلذ ىلإ امو ،VTG و ويدارلا ةزهجأو تاونقلا لثم UMS مداخ ىلإ

قيبطتالا عضو ديدحت .5 ةوطخاا UMS.

.SIP مداخ يف **UMS IP ناونع** لخدأ .6 ةوطخلا

.1 ب ةقوبسم ،اهب لاصتالا متيس يتلا ةطشنلا ةانقلا ددع لخدأ ،# ةانقلا .7 ةوطخلا

.1340 لخدأف ،340 ةانقلا مقر ناك اذإ ،لاثملا ليبس ىلع

Running configuration:

UMS Server Time: Aug 9, 2016 2:06:56 AM

UMS HA Status: ACTIVE

LMS ID: 140 Type: Regular Name: UMS IP Address: 10.105.139.46 Port: 5555

No talkgroup configuration request is in progress now.

There are currently no active calls.

#### Channel Listing: (2 channels)

| ID  | Name          | IP Address  | Port  | Codec |
|-----|---------------|-------------|-------|-------|
| 342 | UHF-Channel-1 | 239.192.0.2 | 21000 | G.711 |
| 467 | CHANNEL1      | 239.192.0.1 | 21000 | G.711 |

#### VTG Listing: (3 vtgs)

 ID: 340 Type: DEFAULT Name: VTG-1 IP address: 239.192.0.29 Port: 21000 Codec: G.711 Channel ID: 342 Name: UHF-Channel-1 IP address: 239.192.0.2 Port: 21000 Codec: G.711

This VTG does not contain any parent VTGs.

 ID: 463 Type: DEFAULT Name: VTG-2 IP address: 239.192.0.57 Port: 21000 Codec: G.711 Channel ID: 467 Name: CHANNELL IP address: 239.192.0.1 Port: 21000 Codec: G.711

This VTG does not contain any parent VTGs.

 ID: 573 Type: DEFAULT Name: VTG-Radio IP address: 239.192.0.4 Port: 21000 Codec: G.711 Channel ID: 467 Name: CHANNEL1 IP address: 239.192.0.1 Port: 21000 Codec: G.711

This VTG does not contain any parent VTGs.

اريماك اهيف لـصـتت يـتـلا يـناوثـلاب يـنمز لـصاف لـخدأ :لاصـتالا نم قـقحتـلا تـقـو .8 ةوطخلاا IP بيرود لكشب IP بيرود لكشب.

**.ظفح** ةقطقط .10 ةوطخلا

### http://<UMS\_IP\_ADDRESS>:8080/UMS-sipua/Live ،ةحفصلا ثيدحتب مق .9 ةوطخلا

تناكو ،تاملاكملا ةمئاق ىلإ عجرا ،نآلا Cam (camera) تناكو ،تاملاكملا ةمئاق ىلإ عجرا ،نآلا ةمضنملا ةسلجلا ءاطخأ فاشكتسأ يف تاميلعتلا هذه .UMS مداخ ربع ددعتملا ثبلا قمئاق طابترالا اذه نمضتيس امك .اهحالصإو ددعتملا ثبلا ةكبش ىلإ SIP ربع مدختسملل .هب ةصاخلا ءامسألاو فرعملا مادختساب هنيوكت مت يذلا UMS مداخ عم ةرفوتملا تاونقلاب

| + - C () 101051994600000                       | ATV:         |
|--|--------------|
| 🗏 Appr 🔅 Getting Barted 🔁 Imported Franciscols |              |
| Refresh period (seconds, 0:disable):           | 2 Select tow |
| Funning configuration:                         |              |
| UMS Server Time: Aug 9, 2016 2:08:             | MA 00        |
|  |              |

UMS HA Stelus: ACTIVE

UMS ID: 140 Type: Regular Name: UMS IP Address: 10 105 139 46 Port: 5555

#### No talkgroup configuration request is in progress now.

#### Call Listing: (1 running calls.)

| Call ID    | Remote<br>Display<br>Name | Remote Host    | Remote<br>RTP Port | RTP<br>Port | Conference<br>Port | Connection<br>Time        | Channel/VTG         |
|------------|---------------------------|----------------|--------------------|-------------|--------------------|---------------------------|---------------------|
| 1829152767 | com                       | 10.105.139.153 | 7078               | 19522       | 35190              | Aug 9, 2016<br>2:07:37 AM | Channel:<br>//PCHL/ |

#### Channel Listing: (2 channels)

| ID  | Name          | IP Address  | Port  | Codec |
|-----|---------------|-------------|-------|-------|
| 342 | UHF-Channel-1 | 239.192.0.2 | 21000 | 0.711 |
| 467 | CHANNELL      | 239.192.0.1 | 21000 | 0.711 |

#### VTG Listing: (3 vtgs)

 ID: 340 Type: DEFAULT Name: VTG-1 IP address: 239.192.0.29 Port: 21000 Codec: G.711 Channel ID: 342 Name: UHP-Channel-1 IP address: 239.192.0.2 Port: 21000 Codec: G.711

This VTG does not contain any parent VTGs.

 ID: 463 Type: DEFAULT Hame: VTG-2 IP address: 239.192.0.57 Port: 21000 Codec: G.711 Channel ID: 467 Name: O-WAREL1 IP address: 239.192.0.1 Port: 21000 Codec: G.711 This VTG does not contain any parent VTGs.

زمرو ناونع مه عم ناونع multicast عم لكشي عم رفوتي VTG لا ةمئاق ىقلتي اضيأ ةوطخ اذه ةسلج ىلإ مامضنالل اريماكلا قيبطت ةطساوب ةانقلا فرعم مادختسإ نكمي لمعتسي يتلا ةطشنلا ةانقلا ددع لخداو ةانقلا فرعم ظحال .SIP لوكوتورب مادختساب هذه لمعلا اريماكلا قيبطت نيوكت ةحفص يف 1 ب ةقوبسم ،اهب لاصتالا متيس

0 0

.1340 لخدأف ،340 ةانقلا مقر ناك اذإ ،لاثملا ليبس ىلع

## اهحالصإو ءاطخألا فاشكتسا

### اريماكلا نم تالجسلا ريدصت ةيفيك

ا**ريماكلاب بيولا ربع (GUI) ةيموسرلا مدختسملا ةمجاو** ىلإ لوخدلا ليجست 1. ةوطخلا.

تالجس قوف رقنا **.اريماكلا تالجس** لالخ نم **ةنايصلا** لالخ نم **ةرادا دادعا** ىلا لقتنا .2 ةوطخلا ر**يدصتلا**.

يلحملا رتويبمكلا ىلإ ليزنت

### اريماكلا تاقيبطت ءاطخأ فاشكتسأ ءانثأ اهيلاٍ عوجرلا متي يتلا تالجسلا اهحالصإو

SIPClient.log نيوكتلا فلم ثيدحت ةلباح ثدمأو SIPClient نيوكت فلم ةلباح لجسلا اذه حضوي. قلاح قعجارم يف اضيأ لجسلا اذه دعاسي SIPDeamon اريماكلاب قصاخلا

رادصإلا ءاطخأ حيحصت ديفملا نم ،اريماكلا ىلع ثادحألا لك ليجستب اذه موقي log.تاهيبنت تالجسلا ىلع ةدوجوملا ثادحألا ىل عجرملا يف دوجوملا قباسلا.

ةلاح تالجس كلذكو قيبطتلاب ةطبترملا تالاخدالا عيمج ىلع لجسلا اذه يوتحي appmgr.log

.صيخرتلا تامولعمو تاقيبطتلا ةرادا ةيفيك لوح تامولعم لجس اذه AppMgrtrace.log

SIPClient\_verbose.log- حيتي ەنإف ،ءاطخألاا حيحصت عم اريماكلا قيبطت نيكمت متي امدنع ةقلعتملا تامولعملا ةباتكب ماظنلا مايق يف ببستي امم ،ليجستلا نيكمت كل يف ەنيزخت متيو SIPClient\_verbose.log لجسلا فلم ىمسي .لجس فلم ىلإ قيبطتلاب قيبطتل ةلماكلا ةلماعملا ليصافت تالجسلا ەذە يطعت .IP اريماك ىلع /var/log دلجم قيبطتل قلماكلا قلماعملا ليماك قيبطتل BM وأ

## اريماكلل (CLI) رماوألا رطس ةهجاو نم اهحالصإو ءاطخألا فاشكتسأ رماوأو تاوطخ

- فلم دعاسي /usr/apps/appmgr/appMgrConfig.xml ىلع اريماك قيبطت نيوكت فلم رفوتي هذه ريدي VSOM يأو اريماكلا اهريدت يتلا تاقيبطتلا مهف يف اذه نيوكتلا تاقيبطتلا.
- فاقيإ نكمي SIPClient : ، مادختساب ممادختسا عدبو /usr/apps/SIPClient/stop.sh /usr/apps/SIPClient/start.sh
- /usr/apps/SIPClient/html/configparams.xml ەليغشت يراجلا نيوكتلا فلملا اذه لمحي المحي. ەليغشت رتخأ يذلا اريماكلا قيبطتل.
- /usr/apps/SIPClient/config.info و ex.. SIPClient تاقيبطتال رادصإ فالمل اذه لمحي SIPClinet 2.8

### UMS - SIPClient\_verbose.log زاهجو اريماكلا قيبطت نيب SIP ءدب لجس جذومن

SIP/2.0 200 OK

یلِا: <sip:1340@10.105.139.46>؛tag=93137073\_cb693726\_17697c56-2493-499e-a6e9-1e666c08d2d9

Via: SIP/2.0/UDP

10.105.139.153:5060؛branch=z9hG4bK.eAHhblzxR؛rport=5060) املتسم؛ 10.105.139.153

ةوعد 20 :CSeq

Call-ID: zmRWy0EhEL

نم: <sip:cam@10.105.139.153>؛tag=UiNDXn5Ot

<sip:10.105.139.46:5060> :لاصتالاا ةەج

ةلااسر ،تارايخ ،ليجست ،ةوعد :حامسلا

تقؤملا :موعدم

uas=ثيدحت؛180 :لمعلا ةسلج ةيحالص ءاەتنا

UMS-Stream-ID: 1857

SDP/قيبطتلا :عونلا - ىوتحملا

224 :ىوتحملا لوط

v=0

o=ums-sipua-1.0 1441 1 يف IP4 10.105.139.46

s=ums-sipua-1.0

r=يفIP4 10.105.139.46 يف

t=0

m=audio 20228 RTP/AVP 0 101

a=rtpmap:0 PCMU/8000

a=rtpmap:101/يفتاه ثدح 8000/

a=fmtp:101 0-15

a=sendrev

a=x-nat:4

اەليلحت مت تياب [491] 2016-08-09 08:42:09:887 ortp-message-channel [0xadcb0]

2016-08-09 08:42:09:888 ortp-message-channel [0xadcb0] قءارق [224] ةءارق [10.105.139.46:5060]

08-42:09:889 ortp-message. وثعلا مت يتلا تالماعملا ةقباطمب قصاخلا قباجتسالا 08:42:09:889 ortp-message.

ةلماعملا ةطساوب نآلا اهثيدحت متي :[0x96be0] [0x96be0] [0x96be0] [0x9adb8].

ِيئاقلت لكشب ةبجو رخآ لسري ortp-message-Dialog 2016-08-09 08:42:09:892 ortp-message-Dialog

2016-08-09 08:42:09:897 ortp-message-channel [0xadcb0]: ىلإ ةلسرملا ةلاسرلا [UDP://10.105.139.46:5060]، تياب

ACK sip:10.105.139.46:5060 SIP/2.0

### Via: SIP/2.0/UDP 10.105.139.153:5060:branch=z9hG4bK.Mu9Ytdoze:rport

:<sip:cam@10.105.139.153>:tag=UiNDXn5Ot

یلا: <sip:1340@10.105.139.46>:tag=93137073\_cb693726\_17697c56-2493-499e-a6e9-1e666c08d2d9

CSeq: 20 ACK

Call-ID: zmRWy0EhEL

70 :ەيجوتلل ىصقألا دحلا

SIP. لوكوتورب ءاشنإ دعب نآلا تانايبلا لاسرإ متي

2016-08-09 08:42:09:898 ortp-message-[0x8cf40] راوحلا عبرم ىلع 200 ok لقن وه [0x96be0]، يطخت

2016-08-09 08:42:09:898 ortp-message-garbage عون نم كولمم ريغ نﺉاك عيمجت belle\_sip\_hop\_t

2016-08-09 08:42:09:899 ortp-message-bandwidth [الاصتال ل مادختس] (0x9e380):

ةيناث/تبوليك [d= 0.0،u= 0.0،u= 39.5]، ويديفلا ا

RTCP audio=[d= 0.0,u= 0.0], video=[d= 0.0,u= 0.0] kbits/sec

audio=18.861635 video=0.00000 :ةجلاعملا لمح P-message-Thread وأ 2016-08-09 08:42:09:904

ةمجرتاا مذه لوح

تمجرت Cisco تايان تايانق تال نم قعومجم مادختساب دنتسمل اذه Cisco تمجرت ملاعل العامي عيمج يف نيم دختسمل لمعد يوتحم ميدقت لقيرشبل و امك ققيقد نوكت نل قيل قمجرت لضفاً نأ قظعالم يجرُي .قصاخل امهتغلب Cisco ياخت .فرتحم مجرتم اممدقي يتل القيفارت عال قمجرت اعم ل احل اوه يل إ أم اد عوجرل اب يصوُتو تامجرت الاذة ققد نع اهتي لوئسم Systems الما يا إ أم الا عنه يل الان الانتيام الال الانتيال الانت الما