

CVP أطر ءاعدتسإ قفدت لمع ءيفيك مهف

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قمدقمل

Cisco Customer Voice Portal (CVP) أطر ءاعدتسإ قفدت لمع ءيفيك دنسمل اذف فصوي

ءيساسأل تابلطتل

تابلطتل

ءيلاتلا عيضاوملاب ءفرعم كيدل نوكت نأ Cisco في صوت:

- CVP مداخ
- Cisco نم (ICM) ءدوملا ءيكذلا تالاصتالا ءرادا
- Cisco (UCCE) نم ءدوملا لاصتالا زكارم تاسسؤم لولح

عمدختسملا تانوكملا

ةيلا تلامرابل تارادصلإ لى دنننسملا اذه في ةدراول تامولعمل دنننست:

- مداخ CVP 11.5
- Cisco نم 11.5 (CVB) يرهاظلا يتوصللا ضرعتسملا
- Cisco نم (CUBE) دحوملا دودحل رصنع
- Cisco نم (VXML) ةيتوصللا عيسوتلل ةلباقلا زيمرتلا ةغل ةباوب
- Cisco Unified Call Manager (CUCM) 11.0
- SIP) لمع ةسلج ادب لوكوتورب

ةصاخ ةي لمعم ةئيبي في ةدوجوملا ةزهجال نم دنننسملا اذه في ةدراول تامولعمل عاشنإ مت تناك اذإ. (يضا رتفا) حوسمم نيوكتب دنننسملا اذه في عمدختسملا ةزهجال عيمج تادب رما يال لمحتحمل ريثاتلل كمهف نم دكاتف، ليغشتلا ديق كتكتبش

ةيساسا تامولعم

CVP اطخ قفدت نإف، لوخدلا ةرابع وأ CUBE في Survivability عمدخ نيكمت متي ال ام دنع VXML Gateway/CVB أو Ingress Gateway/CUBE في اما هنيوكت مت يذلا cvperror.tcl عيعدتسي اهواشنإ مت يتيلا 92929292 ةيمست لاسرإ متي ام دنع (TCL) ةادال هذه رما ةغل ليغشت متي SIP ةلاسر وأ اتقوم اهلقن مت يتيلا SIP 302 ةلاسري في لخدملا CUBE/ةرابع لىل CVP ةطساوب SIP Referring.

CVP موقبي. لعفلاب اعادتسالا لىل باجأ دق CVP نوكتي ام دنع طوق SIP ةلاخ ذيفنت متي اتقوم تلقن 302 وه لسري، ةلاخ هذه في. عملاكملا لىل درلا متي ال ام دنع هيچوتلا ةداعإب لخدم لاصتا ةهج سار في redirect ةيغ نمضتي يا، (بعكم/لخدم

عمهمل نإف، اتقوم لكشبه اهلقن مت يتيلا 302 ةلاسرلا وأ SIP ةراشإ نع رظنلا ضغب في اهنيزخت متي حداف اطخ ةلاسر ليغشت يه cvperror.tcl يصنلا جم انربلل ةيسيرلا VXML/CVB ةباوب وأ CUBE/ةرابع لىل لخدم ةتقوملا ةركاذلا

اتقوم 302 لقن مت - تاملاكملا قفدت CVP اطخ

تاملاكملا قفدت:

(PSTN) ماعلا لولحملا فتاه ةكبش

ICM فاقبي مت) ICM — CVP — SIP — PSTN (CUCM) — 98041 Dials 4008 فتاهلا

CUBE في اعابلا لىل ةردقلا نيكمت متي مل

ةباوبلا في CVP اطخل TCL نيوكت 1: ويرانيسلا

CVP في نيوكتلا

ةروصولا في حضوره وه امك، CUBE لىل 9292 ةيمستلا ريشت CVP بلط ةطخ في

9292>	Error label
* Local Static Route	IP Address/Hostname/Server Group Name: 10.201.198.21

بَع كَم ل ا ي ف ة ل ص ل ا ي ذ ن ي و ك ت ل ا

بَع كَم ل ل IP ن ا و ن ع : 10.201.198.21

بَع كَم ل J IP ن ا و ن ع : 10.201.198.26

```

voice service voip
 no ip address trusted authenticate
 allow-connections sip to sip
 no supplementary-service sip refer
 supplementary-service media-renegotiate
 redirect ip2ip
 signaling forward unconditional
 sip
 bind control source-interface GigabitEthernet0/0
 bind media source-interface GigabitEthernet0/0
 rel1xx disable
 min-se 360 session-expires 360
 header-passing
 asymmetric payload full
 midcall-signaling passthru
 no call service stop

.....
application
 service new-call flash:bootstrap.vxml
 !
 service survivability flash:survivability.tcl
 paramspace callfeature med-inact-det enable
 param ccb id:10.201.198.21;loc:CALO;trunks:2
 !
 service CVPSelfService flash:CVPSelfServiceBootstrap.vxml
 !
 service ringtone flash:ringtone.tcl
 !
 service cvperror flash:cvperror.tcl
 paramspace english index 0
 paramspace english language en
 paramspace english location flash
 paramspace english prefix en
.....
dial-peer voice 929292 voip
 description CVP SIP error dial-peer
 service cvperror
 session protocol sipv2
 session target ipv4:10.201.198.26
 session transport tcp
 incoming called-number 9292T
 voice-class sip rel1xx disable
 dtmf-relay rtp-nte h245-signal h245-alphanumeric
 codec g711ulaw
 no vad

```

ت ا ل ج س ل ا ن م ة ص ا ص ق

VoIP ءاطخأ حىحصتو CCSIP ءلاس رءاطخأ حىحصت: ءبواب الء ف ءنكم مل ءاطخأ الء حىحصت ءءراول الء ccap

--- After the error is identified on CVP, CVP sends a 302 Moved Temporarily to CUBE/Gateway

```
2444742: *May  2 19:30:45.956: //1575870/67C371000000/SIP/Msg/ccsipDisplayMsg:
Received:
SIP/2.0 302 Moved Temporarily
Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK496B721A7
To: <sip:8041@10.201.198.7>;tag=dsa401be35
From: <sip:4008@10.201.198.18>;tag=21E92674-46A
Call-ID: AC32BE77-4D9711E8-91BCBF90-16BB0040@10.201.198.21
CSeq: 101 INVITE
Content-Length: 0
Cisco-Guid: 1740861696-0000065536-0000000041-0315017482
Contact: <sip:92929292@10.201.198.21>
Cisco-Gucid: 67C3710000010000000002912C6C90A
Session-ID: 00000000000000000000000000000000;remote=232199a11000016357f53ee8f467d218
```

--- Gateway responds with ACK

```
Sent:
ACK sip:8041@10.201.198.7:5060 SIP/2.0
Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK496B721A7
From: sip:4008@10.201.198.18;tag=21E92674-46A
To: <sip:8041@10.201.198.7>;tag=dsa401be35
Date: Wed, 02 May 2018 23:30:45 GMT
Call-ID: AC32BE77-4D9711E8-91BCBF90-16BB0040@10.201.198.21
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: telephone-event
Content-Length: 0
```

-- Gateway forwards the Moved Temporarily message to the original party, in this case the PSTN (CUCM in this lab), since the supplementary service is enabled

```
Sent:
SIP/2.0 302 Moved Temporarily
Via: SIP/2.0/TCP 10.201.198.18:5065;branch=z9hG4bK7d54331a57
From: <sip:4008@10.201.198.18>;tag=88-d18302a7-aed7-454e-85f1-89e6650073de-20554954
To: <sip:98041@10.201.198.21>;tag=21E926A0-192
Date: Wed, 02 May 2018 23:30:45 GMT
Call-ID: 67c37100-aea14613-29-12c6c90a@10.201.198.18
CSeq: 101 INVITE
Allow-Events: telephone-event
Server: Cisco-SIPGateway/IOS-12.x
Diversion: <sip:8041@10.201.198.21>;reason=unconditional;counter=1
Contact: sip:92929292@10.201.198.21:5060
Content-Length: 0
```

--CUCM ACK the message---

```
Received:
ACK sip:98041@10.201.198.21:5060 SIP/2.0
Via: SIP/2.0/TCP 10.201.198.18:5065;branch=z9hG4bK7d54331a57
From: <sip:4008@10.201.198.18>;tag=88-d18302a7-aed7-454e-85f1-89e6650073de-20554954
To: <sip:98041@10.201.198.21>;tag=21E926A0-192
Date: Wed, 02 May 2018 23:13:23 GMT
Call-ID: 67c37100-aea14613-29-12c6c90a@10.201.198.18
User-Agent: Cisco-CUCM11.0
```

Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: presence, kpml
Content-Length: 0

--- Gateway received and Invite from PSTN (CUCM) related to the 929292 Error call flow

Received:

INVITE sip:92929292@10.201.198.21:5060 SIP/2.0

Via: SIP/2.0/UDP 10.201.198.18:5065;branch=z9hG4bK7e6f8e5100
From: <sip:4008@10.201.198.18>;tag=88-d18302a7-aed7-454e-85f1-89e6650073de-20554954
To: <sip:98041@10.201.198.21>
Date: Wed, 02 May 2018 23:13:23 GMT
Call-ID: 67c37100-aea14613-29-12c6c90a@10.201.198.18
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: 102 INVITE
Diversion: <sip:8041@10.201.198.21>;reason=unconditional;counter=1
Expires: 180
Allow-Events: presence, kpml
Supported: X-cisco-srtp-fallback,X-cisco-original-called
Call-Info: <sip:10.201.198.18:5065>;method="NOTIFY;Event=telephone-event;Duration=500"
Call-Info: <urn:x-cisco-remotecc:callinfo>;x-cisco-video-traffic-class=VIDEO_UNSPECIFIED
Session-ID: a8540c82a4e44c2eba3f04ba20554953;remote=00000000000000000000000000000000
Cisco-Guid: 1740861696-0000065536-0000000041-0315017482
Session-Expires: 1800
P-Asserted-Identity: <sip:4008@10.201.198.18>
Remote-Party-ID: <sip:4008@10.201.198.18>;party=calling;screen=yes;privacy=off
Contact: <sip:4008@10.201.198.18:5065;transport=tcp>
Max-Forwards: 70
Content-Length: 0

---Match dial-peer 929292

2444797: *May 2 19:30:45.988: //-1/67C371000000/CCAPI/cc_api_call_setup_ind_common:
Interface=0x4A3A8D84, Call Info(
Calling Number=sip:4008@10.201.198.18,(Calling Name=)(TON=Unknown, NPI=Unknown,
Screening=User, Passed, Presentation=Allowed),
Called Number=sip:92929292@10.201.198.21:5060(TON=Unknown, NPI=Unknown),
Calling Translated=FALSE, Subscriber Type Str=Unknown, FinalDestinationFlag=TRUE,
Incoming Dial-peer=929292, Progress Indication=NULL(0), Calling IE Present=TRUE,
Source Trkgrp Route Label=, Target Trkgrp Route Label=, CLID Transparent=FALSE), Call
Id=1575871

....
....

-- Run cvperror.tcl

2444810: *May 2 19:30:45.992: //1575871/67C371000000/CCAPI/cc_process_call_setup_ind:
>>>>CCAPI handed cid 1575871 with tag 929292 to app "**_ManagedAppProcess_cvperror**"

-- Sent Trying and session progress to PSTN

Sent:
SIP/2.0 100 Trying
Via: SIP/2.0/UDP 10.201.198.18:5065;branch=z9hG4bK7e6f8e5100
From: <sip:4008@10.201.198.18>;tag=88-d18302a7-aed7-454e-85f1-89e6650073de-20554954
To: <sip:98041@10.201.198.21>

Date: Wed, 02 May 2018 23:30:45 GMT
Call-ID: 67c37100-aea14613-29-12c6c90a@10.201.198.18
CSeq: 102 INVITE
Allow-Events: telephone-event
Server: Cisco-SIPGateway/IOS-12.x
Content-Length: 0

2444819: *May 2 19:30:46.000: //1575871/67C371000000/SIP/Msg/ccsipDisplayMsg:
Sent:
SIP/2.0 183 Session Progress
Via: SIP/2.0/UDP 10.201.198.18:5065;branch=z9hG4bK7e6f8e5100
From: <sip:4008@10.201.198.18>;tag=88-d18302a7-aed7-454e-85f1-89e6650073de-20554954
To: <sip:98041@10.201.198.21>;tag=21E926C0-EDA
Date: Wed, 02 May 2018 23:30:45 GMT
Call-ID: 67c37100-aea14613-29-12c6c90a@10.201.198.18
CSeq: 102 INVITE
Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER
Allow-Events: telephone-event
Contact: <sip:92929292@10.201.198.21:5060;transport=tcp>
Server: Cisco-SIPGateway/IOS-12.x
Content-Length: 0

--Sent 200 OK

2444820: *May 2 19:30:46.000: //1575871/67C371000000/SIP/Msg/ccsipDisplayMsg:
Sent:
SIP/2.0 200 OK
Via: SIP/2.0/UDP 10.201.198.18:5065;branch=z9hG4bK7e6f8e5100
From: <sip:4008@10.201.198.18>;tag=88-d18302a7-aed7-454e-85f1-89e6650073de-20554954
To: <sip:98041@10.201.198.21>;tag=21E926C0-EDA
Date: Wed, 02 May 2018 23:30:45 GMT
Call-ID: 67c37100-aea14613-29-12c6c90a@10.201.198.18
CSeq: 102 INVITE
Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER
Allow-Events: telephone-event
Contact: <sip:92929292@10.201.198.21:5060;transport=tcp>
Supported: replaces
Supported: sdp-anat
Server: Cisco-SIPGateway/IOS-12.x
Require: timer
Session-Expires: 1800;refresher=uac
Supported: timer
Content-Type: application/sdp
Content-Disposition: session;handling=required
Content-Length: 250

v=0
o=CiscoSystemsSIP-GW-UserAgent 7410 4830 IN IP4 10.201.198.21
s=SIP Call
c=IN IP4 10.201.198.21
t=0 0
m=audio 16526 RTP/AVP 0 101
c=IN IP4 10.201.198.21
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-16
a=ptime:20

--Received ACK of the 200 OK message

```
2444823: *May 2 19:30:46.176: //-1/xxxxxxxxxxxx/SIP/Msg/ccsipDisplayMsg:
Received:
ACK sip:92929292@10.201.198.21:5060;transport=tcp SIP/2.0
Via: SIP/2.0/TCP 10.201.198.18:5065;branch=z9hG4bK7f4b18782f
From: <sip:4008@10.201.198.18>;tag=88-d18302a7-aed7-454e-85f1-89e6650073de-20554954
To: <sip:98041@10.201.198.21>;tag=21E926C0-EDA
Date: Wed, 02 May 2018 23:13:23 GMT
Call-ID: 67c37100-aea14613-29-12c6c90a@10.201.198.18
User-Agent: Cisco-CUCM11.0
Max-Forwards: 70
CSeq: 102 ACK
Allow-Events: presence, kpml
Session-ID: a8540c82a4e44c2eba3f04ba20554953;remote=4c37a896d7446e294d24d877668cab88
Content-Type: application/sdp
Content-Length: 244
```

```
v=0
o=CiscoSystemsCCM-SIP 88 1 IN IP4 10.201.198.18
s=SIP Call
c=IN IP4 10.152.234.20
b=TIAS:64000
b=CT:64
b=AS:64
t=0 0
m=audio 23062 RTP/AVP 0 101
a=ptime:20
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

---Play critical error audio file located in flash on CUBE

1 حرش ال ويرانيس

هنك مت متي اتقؤم هل قن مت يذال يليمك الت ال SIP لوكوتورب نأ امب ويرانيس ال اذه في
ة لال هذه في و، ئش نمل ال ال ةم لك مل هيجوت ة داعب ة رابعل موقت، يضارتف ل لك شب
ة PSTN لوكوتورب (ف، ربتخمل ال ف، CUCM).

ة فاضا ة مدخ دوجو مدعو ة باوب ال في CVP أطخل TCL نيوك ت: 2 ويرانيس ال

CVP في نيوك ت ال

ة روصل ال في حضورم وه امك، CUBE ال 9292 ة م ست ال ريش ت CVP بل ط ة طخ في

<input type="checkbox"/>	9292>	Error label
<input type="checkbox"/>	Local Static Route	IP Address/Hostname/Server Group Name: 10.201.198.21

ب عك مل ال في ة لصل ال يذ نيوك ت ال

ب عك مل ال IP ناو نع: 10.201.198.21

ب عك مل ال IP ل CVB: 10.201.198.26

```

voice service voip
  no ip address trusted authenticate
  allow-connections sip to sip
no supplementary-service sip moved-temporarily
  no supplementary-service sip refer
  supplementary-service media-renegotiate
  redirect ip2ip
  signaling forward unconditional
  sip
  bind control source-interface GigabitEthernet0/0
  bind media source-interface GigabitEthernet0/0
  rellxx disable
  min-se 360 session-expires 360
  header-passing
  asymmetric payload full
  midcall-signaling passthru
  no call service stop

.....
application
  service new-call flash:bootstrap.vxml
  !
  service survivability flash:survivability.tcl
  param space callfeature med-inact-det enable
  param ccb id:10.201.198.21;loc:CALO;trunks:2
  !
  service CVPSelfService flash:CVPSelfServiceBootstrap.vxml
  !
  service ringtone flash:ringtone.tcl
  !
  service cvperror flash:cvperror.tcl
  param space english index 0
  param space english language en
  param space english location flash
  param space english prefix en
.....
dial-peer voice 929292 voip
  description CVP SIP error dial-peer
  service cvperror
  session protocol sipv2
  session target ipv4:10.201.198.26
  session transport tcp
  incoming called-number 9292T
  voice-class sip rellxx disable
  dtmf-relay rtp-nte h245-signal h245-alphanumeric
  codec g711ulaw
  no vad

```

تالچسلا نم ةصاصق

CCAPI ءاطخأ حىحصت و CCSIP ةلاس ر ءاطخأ حىحصت : ةباوبلا يف ءاطخأ ال حىحصت ني كمت مت

--- After the error is identified on CVP, CVP sends a 302 Moved Temporarily to CUBE/Gateway

```

2452782: *May 2 21:02:46.120: //1580163/41F099000000/SIP/Msg/ccsipDisplayMsg:
Received:
SIP/2.0 302 Moved Temporarily

```


Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK4980BDED
To: <sip:8041@10.201.198.7>;tag=ds8369f9d4
From: <sip:4008@10.201.198.18>;tag=223D6198-B66
Call-ID: 8678DF8F-4DA411E8-A286BF90-16BB0040@10.201.198.21
CSeq: 101 INVITE
Content-Length: 0
Cisco-Guid: 1106286848-0000065536-0000000042-0315017482
Contact: <sip:92929292@10.201.198.21>
Cisco-Gucid: 41F0990000010000000002A12C6C90A
Session-ID: 00000000000000000000000000000000;remote=2375d4ec100001634a4a6be49573f76d

--- Gateway responds with ACK

Sent:
ACK sip:8041@10.201.198.7:5060 SIP/2.0
Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK4980BDED
From: sip:4008@10.201.198.18;tag=223D6198-B66
To: <sip:8041@10.201.198.7>;tag=ds8369f9d4
Date: Thu, 03 May 2018 01:02:46 GMT
Call-ID: 8678DF8F-4DA411E8-A286BF90-16BB0040@10.201.198.21
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: telephone-event
Content-Length: 0

2452813: *May 2 21:02:46.128: //1580163/41F099000000/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x4A3A8D84, Tag=0x0, Call Id=1580163,
Call Entry(Disconnect Cause=16, Voice Class Cause Code=0, Retry Count=0)
2452814: *May 2 21:02:46.128: //1580163/41F099000000/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
2452815: *May 2 21:02:46.128: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

2452816: *May 2 21:02:46.128: :cc_free_feature_vsa freeing 4C79B7F8
2452817: *May 2 21:02:46.128: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

2452818: *May 2 21:02:46.128: vsacount in free is 2
2452819: *May 2 21:02:46.132: //1580162/41F099000000/CCAPI/ccCallDisconnect:
Cause Value=16, Tag=0x0, Call Entry(Previous Disconnect Cause=0, Disconnect Cause=0)
2452820: *May 2 21:02:46.132: //1580162/41F099000000/CCAPI/ccCallDisconnect:
Cause Value=16, Call Entry(Responded=TRUE, Cause Value=16)
2452821: *May 2 21:02:46.132: //-1/xxxxxxxxxxxx/CCAPI/ccMemPoolTDFreeHelper:
data = 4D0F39A4
2452822: *May 2 21:02:46.132: ccMemPoolTDFreeHelper:mem_mgr_mempool_free:
mem_refcnt(4C6D2C38)=0 - mempool cleanup
2452823: *May 2 21:02:46.132: //1580162/41F099000000/SIP/Msg/ccsipDisplayMsg:

--Since Moved Supplementary Service is disabled, Gateway reports an error and the call is disconnected:

Sent:
SIP/2.0 500 Internal Server Error
Via: SIP/2.0/TCP 10.201.198.18:5065;branch=z9hG4bK817c2f8cee
From: <sip:4008@10.201.198.18>;tag=90-d18302a7-aed7-454e-85f1-89e6650073de-20554956
To: <sip:98041@10.201.198.21>;tag=223D61C8-24D1
Date: Thu, 03 May 2018 01:02:46 GMT
Call-ID: 41f09900-aea15ba3-2a-12c6c90a@10.201.198.18
CSeq: 101 INVITE
Allow-Events: telephone-event
Server: Cisco-SIPGateway/IOS-12.x
Reason: Q.850;cause=16
Content-Length: 0

2 حرشال ويرانيس

اتقوم اهلون مت يتللا ةيليمكتلا ةمدخلل SIP لوكوتورب ليطعتل ارظن ويرانيسلا اذه في يلخاد أطخ نع غالبال نع الضف، اتقوم 302 اهلون مت يتللا ةلاسارلا معد مدعو، ةابولل في ةابولل ةطساوب CVP لىل.

ةمدخ نودبو VXML/CVB ةرابع في CVP أطخل TCL نيوكت 3: ويرانيسلا ةيليمكت

CVP في نيوكتلا

ةروصلال في حضورم وه امك CVB لىل 929292 ةيمستلا ريشت CVP بلط ةطخ في

9292>	Error label
Local Static Route	IP Address/Hostname/Server Group Name: 10.201.198.26

بعكملال في ةلصلال ذي نيوكتلا

بعكملال IP ناوع: 10.201.198.21

CVB ل IP ناوع: 10.201.198.26

```
voice service voip
  no ip address trusted authenticate
  allow-connections sip to sip
no supplementary-service sip moved-temporarily
  no supplementary-service sip refer
  supplementary-service media-renegotiate
  redirect ip2ip
  signaling forward unconditional
  sip
  bind control source-interface GigabitEthernet0/0
  bind media source-interface GigabitEthernet0/0
  rellxx disable
  min-se 360 session-expires 360
  header-passing
  asymmetric payload full
  midcall-signaling passthru
  no call service stop

.....
application
  service new-call flash:bootstrap.vxml
  !
  service survivability flash:survivability.tcl
  paramspace callfeature med-inact-det enable
  param ccb id:10.201.198.21;loc:CALO;trunks:2
  !
  service CVPSelfService flash:CVPSelfServiceBootstrap.vxml
  !
  service ringtone flash:ringtone.tcl
  !
```

```
service cvperror flash:cvperror.tcl
paramspace english index 0
paramspace english language en
paramspace english location flash
paramspace english prefix en
.....
dial-peer voice 929292 voip
description CVP SIP error dial-peer
service cvperror
session protocol sipv2
session target ipv4:10.201.198.26
session transport tcp
incoming called-number 9292T
voice-class sip rellxx disable
dtmf-relay rtp-nte h245-signal h245-alphanumeric
codec g711ulaw
no vad
```

تال جسر ال نم ة صاصق

CCAPI ءاطخأ حى حصت و CCSIP ة لاسر ءاطخأ حى حصت : ة باوبل ا يف ءاطخأ ال حى حصت ني كمت مت

Same behavior as Scenario 2

Received:

```
SIP/2.0 302 Moved Temporarily
Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK4984515FB
To: <sip:8041@10.201.198.7>;tag=ds8848a4c6
From: <sip:4008@10.201.198.18>;tag=224B0C80-11DA
Call-ID: 9C5C461D-4DA611E8-A550BF90-16BB0040@10.201.198.21
CSeq: 101 INVITE
Content-Length: 0
Cisco-Guid: 1476352256-0000065536-0000000044-0315017482
Contact: <sip:92929292@10.201.198.26>
Cisco-Gucid: 57FF5900000100000000002C12C6C90A
Session-ID: 00000000000000000000000000000000;remote=23837fd11000016394e369cb85ba7fea
```

Sent:

```
ACK sip:8041@10.201.198.7:5060 SIP/2.0
Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK4984515FB
From: sip:4008@10.201.198.18;tag=224B0C80-11DA
To: <sip:8041@10.201.198.7>;tag=ds8848a4c6
Date: Thu, 03 May 2018 01:17:41 GMT
Call-ID: 9C5C461D-4DA611E8-A550BF90-16BB0040@10.201.198.21
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: telephone-event
Content-Length: 0
```

Sent:

```
SIP/2.0 500 Internal Server Error
Via: SIP/2.0/TCP 10.201.198.18:5065;branch=z9hG4bK83447b6e69
From: <sip:4008@10.201.198.18>;tag=92-d18302a7-aed7-454e-85f1-89e6650073de-20554960
To: <sip:98041@10.201.198.21>;tag=224B0CA0-E15
Date: Thu, 03 May 2018 01:17:41 GMT
```

Call-ID: 57ff5900-aea15f23-2c-12c6c90a@10.201.198.18
CSeq: 101 INVITE
Allow-Events: telephone-event
Server: Cisco-SIPGateway/IOS-12.x
Reason: Q.850;cause=16
Content-Length: 0

3 يحيضوتلا ويراني سلا

اهلقن مت يتيلا ةيلي مكيكتلا ةمدخلال اب صاخلا SIP نأل ارظن ، Scenarion 2 لثم كولسلا سفن غالبال متيو ، ةم و عدم ريغ اتقؤم 302 اهلقن مت يتيلا ةلاس رلا نإف ، ةباوبلا يف لطم اتقؤم . ةباوبلا ةطساوب CVP لىل يلد اذ اطح نع .

4 ويراني سلا ةرابع يف VXML/CVB أطلخ TCL نيوكت :

يف نيوكتلا CVP

ةروصلال يف حضورم وه امك CVB لىل 929292 ةيمستلا ريشن CVP بلط ةطخ يف .

929292>	Error label
Local Static Route	IP Address/Hostname/Server Group Name: 10.201.198.26

بعكملا يف ةلصلال يذ نيوكتلا

بعكملا ل IP ناوع : 10.201.198.21

CVB ل IP ناوع : 10.201.198.26

```
voice service voip
  no ip address trusted authenticate
  allow-connections sip to sip
no supplementary-service sip refer
supplementary-service media-renegotiate
redirect ip2ip
signaling forward unconditional
sip
bind control source-interface GigabitEthernet0/0
bind media source-interface GigabitEthernet0/0
rellxx disable
min-se 360 session-expires 360
header-passing
asymmetric payload full
midcall-signaling passthru
no call service stop

.....
application
service new-call flash:bootstrap.vxml
!
```

```
service survivability flash:survivability.tcl
paramspace callfeature med-inact-det enable
param ccb id:10.201.198.21;loc:CALO;trunks:2
!
service CVPSelfService flash:CVPSelfServiceBootstrap.vxml
!
service ringtone flash:ringtone.tcl
!
service cvperror flash:cvperror.tcl
paramspace english index 0
paramspace english language en
paramspace english location flash
paramspace english prefix en
.....
dial-peer voice 929292 voip
description CVP SIP error dial-peer
service cvperror
session protocol sipv2
session target ipv4:10.201.198.26
session transport tcp
incoming called-number 9292T
voice-class sip rellxx disable
dtmf-relay rtp-nte h245-signal h245-alphanumeric
codec g711ulaw
no vad
```

تال جسال نم ةصاصق

VoIP ءاطخأ حىحصت و CCSIP ةلاسر ءاطخأ حىحصت: ةابولال ي ف ةنكمم ل ءاطخأ ال حىحصت ةدراولال ccapi

--- After the error is identified on CVP, CVP sends a 302 Moved Temporarily to CUBE/Gateway

```
2455061: *May 2 21:25:10.904: //1581217/639F4F800000/SIP/Msg/ccsipDisplayMsg:
Received:
SIP/2.0 302 Moved Temporarily
Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK4986321AD
To: <sip:8041@10.201.198.7>;tag=ds2cb7f0a
From: <sip:4008@10.201.198.18>;tag=2251E6B8-26BC
Call-ID: A8087055-4DA711E8-A6C0BF90-16BB0040@10.201.198.21
CSeq: 101 INVITE
Content-Length: 0
Cisco-Guid: 1671384960-0000065536-0000000046-0315017482
Contact: <sip:92929292@10.201.198.26>
Cisco-Gucid: 639F4F80000100000000002E12C6C90A
Session-ID: 00000000000000000000000000000000;remote=238a5a0d100001633384b476d5df07da
```

--- Gateway responds with ACK

```
Sent:
ACK sip:8041@10.201.198.7:5060 SIP/2.0
Via: SIP/2.0/UDP 10.201.198.21:5060;branch=z9hG4bK4986321AD
From: sip:4008@10.201.198.18;tag=2251E6B8-26BC
To: <sip:8041@10.201.198.7>;tag=ds2cb7f0a
Date: Thu, 03 May 2018 01:25:10 GMT
Call-ID: A8087055-4DA711E8-A6C0BF90-16BB0040@10.201.198.21
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: telephone-event
```

Content-Length: 0

-- Gateway forward the Moved Temporarily message to the original party, in this case the PSTN (CUCM in this lab), since the supplementary service is enabled

Sent:

SIP/2.0 302 Moved Temporarily
Via: SIP/2.0/TCP 10.201.198.18:5065;branch=z9hG4bK852a31e4f8
From: <sip:4008@10.201.198.18>;tag=94-d18302a7-aed7-454e-85f1-89e6650073de-20554964
To: <sip:98041@10.201.198.21>;tag=2251E6D4-23B1
Date: Thu, 03 May 2018 01:25:10 GMT
Call-ID: 639f4f80-aea160e4-2e-12c6c90a@10.201.198.18
CSeq: 101 INVITE
Allow-Events: telephone-event
Server: Cisco-SIPGateway/IOS-12.x
Diversion: <sip:8041@10.201.198.21>;reason=unconditional;counter=1
Contact: sip:92929292@10.201.198.26:5060
Content-Length: 0

---Received ACK form PSTN

Received:

ACK sip:98041@10.201.198.21:5060 SIP/2.0
Via: SIP/2.0/TCP 10.201.198.18:5065;branch=z9hG4bK852a31e4f8
From: <sip:4008@10.201.198.18>;tag=94-d18302a7-aed7-454e-85f1-89e6650073de-20554964
To: <sip:98041@10.201.198.21>;tag=2251E6D4-23B1
Date: Thu, 03 May 2018 01:07:48 GMT
Call-ID: 639f4f80-aea160e4-2e-12c6c90a@10.201.198.18
User-Agent: Cisco-CUCM11.0
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: presence, kpml
Content-Length: 0

At this moment the PSTN must sent a SIP Invite to the CVVB, since there is no SIP trunk between the PSTN and the CVVB, the critical error message is not played and the call disconnects.

4 يحيضوتلا ويرانيسلا

هنكمت متي اتقؤم هل قن مت يذلا يليمك التلا SIP لوكوتورب نأ امب ويرانيسلا اذه في لاجلا هذه يفو، ئشنملا لىلا عملاكملا هي جوت ةداعإب ةرابعلا موقت، يضارتفا لكش ب طخ لىل عيوتحت ال PSTN ةكپش نأل ارظن، كلذ عمو (CUCM، ربتخملا في) PSTN لوكوتورب ةملاكملا لاصتا عطقيو و ماها لاطخالا ةلاسرا لىغشت متي الف، CVB لىلا SIP لاصتا

ةلص هل سيل. ةباوبلا ةطساوب اهيف مكحتلا او 929292 اطح ةيمست نيوكت بجي، ماتخالا في في 929292 دراوالب لطلال ريظن لىل عملا ةسلج فده في هننيوكت بتم مق امب ةرداص لاصتا ةطقن يأل همادختسا متي ال اذه بلطلال ريظن نأل ارظن، CUBE/ةباوبلا

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل ا اذ ه Cisco ت مچرت
م ل ا ل ا ا ن ا ع مچ م ف ن م دخت س م ل م عد و ت م م م دقت ل ة م ش ب ل و
م ك ة ق ي ق د ن و ك ت ن ل ة ل ا ة مچرت ل ض ف ا ن ا ة ظ ح ا ل م م چ ر ي . ة ص ا خ ل م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت م 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 م ل ا ح ل ا و ه
ل ا ا م ا د ا د ع و چ 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 ا ل ا ي ز ي ل چ ن ا ل ا دن ت س م ل ا