

عم اھال صا و تاملاکمل دادع اءاطخا فاشک تسأ VTR و VTRI

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عمدقملا

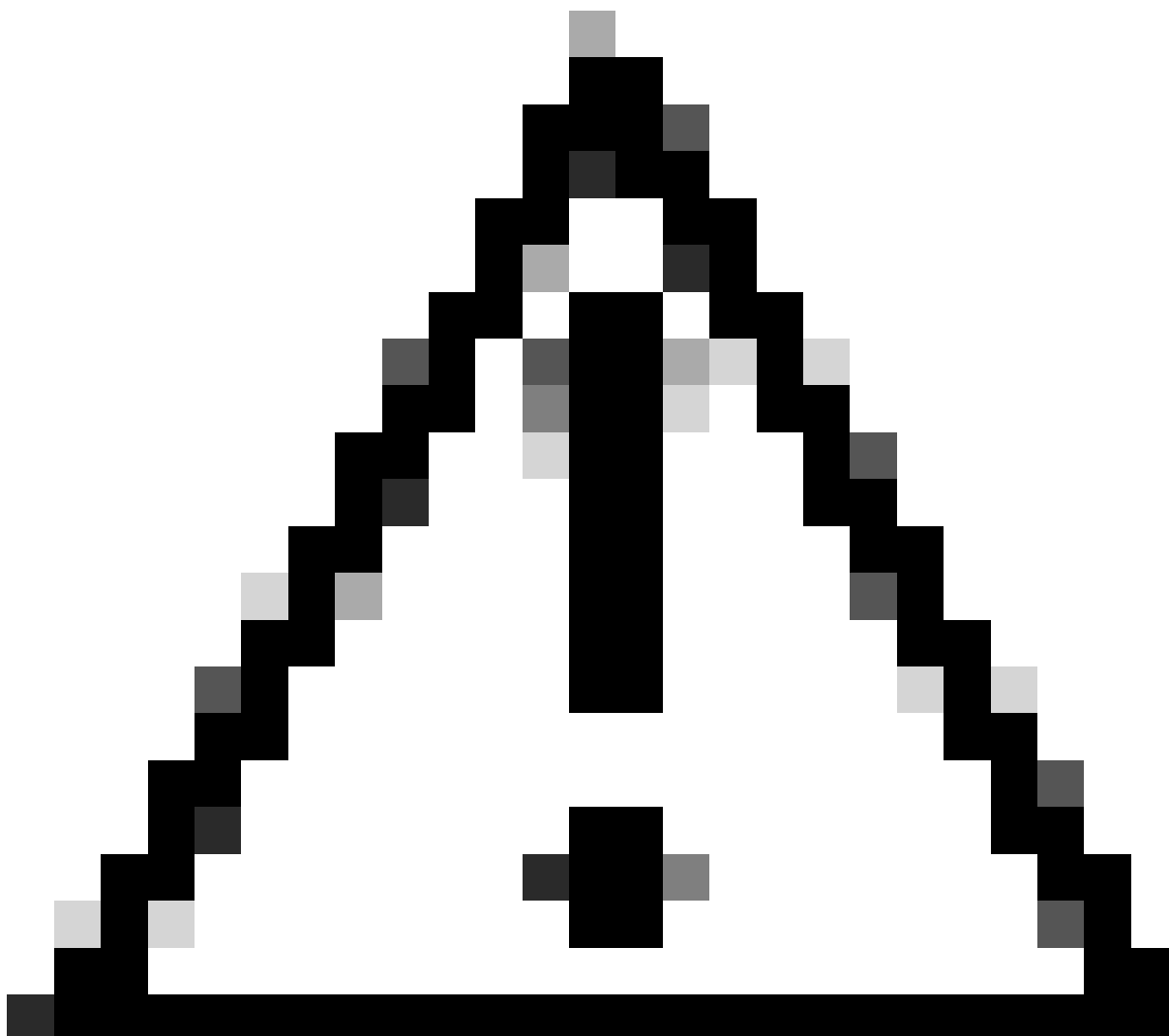
مداخ ي ف (VTR) هيجوتلاو قمجرتلا نم ققحتلا قاءا مادختسا قيفيک دنتسملا اذه حضوي اھال صا و قعئاشلا تاملاکملا دادع اءاطخا فاشک تسال (AS) تاقيبطتلا

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قيساسا تامولعم

فاشک تسال امهم ادختسا نکمي ني تنمضم ني تادأ يلع BroadWorks قيبطت مداخ يوتحي نم ضرغلا (VTRI) قوعدلا هيجوتو قمجرتلا نم ققحتلا و VTR: اھال صا و تاءاعدتسالا دادع اءاطخا: لخدم رمالا يلع وه قرفلا ،هسفن قاءا نانثا اذه

- هجول مقرر إلى إفاض إلاب، (فاتاهل مقرر وأ userId لثم) لصتمل لي صافت ذخأي VTR،
لإخداك،
 - لخدمك SIP ةوعده لاسرر VTRI ذخأي.
-



تاجرمال ةينب نكل، (NS) ةكبشلا مداخل في VTRI و VTR رماو اضيأ رفوتي: ريذحت
ءانثأ عجرمك همادختسا نكمي الو AS VTRI(ل) لىع دنتسملا اذه زكري. AS نع فلتخت
NS VTRI(ل) عم لمعلا

[قيبطتلا مداخل VTR ةرادا ليلد](#) في AS VTR ل لماكل رماوأل عجرم رفوتي

ةيساسأل تابلطتملا

تابلطتملا

اذه نم ةفرعم تنأ ىقلتني نأ ي صوي cisco:

- (SIP) لمع ةسلج ءدب لوكوتورب تاراشا لاسرا .
- اهنوكتو ةحاتملا تامدخل الى ةفاضلإاب ،قېبطلال مداخل ةملالكمل ةجلالعم ةلآ .

ةمدختسمل تانوكمل

نإف ،كلذ عمو R24 رادصلإك BroadWorks الى دنننسملا اذه يف ةدراول تامولعمل دننست لثامم ىرخألال چماربل تارادصلإ كولس .

ةصاخ ةيلمعم ةئيب يف ةدوجوملا ةزهجال نم دنننسملا اذه يف ةدراول تامولعمل ءاشنإ مت تناك اذإ .(يضا رتفا) حوسمم نيوكتب دنننسملا اذه يف ةمدختسمل ةزهجال عيمج تادب رمايأل لمحتمل ريثأتلل كمهف نم دكأتف ،ليغشتلا ديق كتكبش

VTR(i) ةادأ مادختسا

ببيل ةهجاو نمو (CLI) رماوالا رطس ةهجاو نم لك نم VTR ليلحت ليغشت نكمي .

رماوالا رطس ةهجاو نم VTR(i) ةادأ ليغشت

steps اذه تلمعتسا ،gui ببو نم VTR تضكر in order to

لكب ةصاخلا BWADMIN دامتعا تانايب مادختساب BroadWorks CLI الى لوخدلا لچس 1. ةوطخل

الى لاقتنال او BroadWorks نم رماوالا رطس ةهجاو ليغشت ءدب 2. ةوطخل
AS_CLI/ASDiagnostic/Diag:

```
AS_CLI> cd ASDiagnostic/Diag
```

رطس يف ةرتفال فرحو ،SIP ةوعدب اعوبتم ،vtri رمالا ليغشتب مق ،VTRI مادختسال 3. ةوطخل
لثاملا ليبس ىلع .ديدج

```
AS_CLI/ASDiagnostic/Diag> vtri
```

Enter a SIP message. When complete, enter a single period (.) on a line to start verifying the translation.

```
INVITE sip:2012@mleus.lab SIP/2.0
```

```
Via: SIP/2.0/UDP 10.61.205.219:58300;rport;branch=z9hG4bKPjgINPvPUvoBT57iT0BPsgCfEqE5GX1aj7
```

```
Max-Forwards: 70
```

```
From: "Marek Leus"
```

;tag=6fU.V1LrWc6WI3JU8jWKS.25yeoWEhpc
To: sip:2012@mleus.lab
Contact: "Marek Leus"

Call-ID: dTUVBWON9UjmfTpGC0oJzhLfbaJm11C
CSeq: 6492 INVITE
Route:

Allow: PRACK, INVITE, ACK, BYE, CANCEL, UPDATE, INFO, SUBSCRIBE, NOTIFY, REFER, MESSAGE, OPTIONS
Supported: replaces, 100rel, norefersub
User-Agent: Telephone 1.6
Content-Type: application/sdp
Content-Length: 480

v=0
o=- 3883737105 3883737105 IN IP4 10.61.205.219
s=pjmedia
b=AS:117
t=0 0
a=X-nat:0
m=audio 4012 RTP/AVP 96 9 8 0 101 102
c=IN IP4 10.61.205.219
b=TIAS:96000
a=rtcp:4013 IN IP4 10.61.205.219
a=sendrecv
a=rtpmap:96 opus/48000/2
a=fmtp:96 useinbandfec=1
a=rtpmap:9 G722/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/48000
a=fmtp:101 0-16
a=rtpmap:102 telephone-event/8000
a=fmtp:102 0-16
a=ssrc:2039250127 cname:43ec7f3b5b951d53
.

هذه جولة واحدة من المراسلات التي تم إجراؤها، رُمِّمَ vtr إلى تضكير VTR، لتلتمعتسا 4. وخط
العثم إلى بيس لىع:

Command reference:

AS_CLI/ASDiagnostic/Diag> h vtr

This command is used to perform a test call and see the routing results. Please be careful when performing test calls, it may have an impact on existing real calls or cause user migration.

Parameters description:

origType : The type of origination used to trigger the VTR request.
linePort : The lineport of the originating user.
bwphone : The originating BroadWorks user phone number.
pstnphone : The originating PSTN user phone number.
userId : The originating BroadWorks user Id.
url : The originating url.
destination: The called user, number or URI.
option : Additional vtr options.
contact : The contact URL to use for the test call.
diversion : The diversion URL to use for the test call.

=====
vtr

, Choice = {linePort, bwphone, pstnphone, userId, url}

, String {1 to 80 characters}

, String {1 to 17 characters}

, String {1 to 17 characters}

, String {2 to 161 characters}

, String {2 to 161 characters}

, String {1 to 161 characters}

[

, Multiple Choice = {contact, diversion}], String {1 to 80 characters}, String {1 to 80 characters}

Usage example:

AS_CLI/ASDiagnostic/Diag> vtr userId ngnuserB1@mleus.lab 2012

بېولل (GUI) ټي موموسرللا مدختسملا ټهجاو نم (VTR(I) ټاډا لښغشت

steps: اذه تلمعتسا ، gui بېولل نم VTR تضر كړ in order to

AS. بېولل ټهجاو ښل لوڅډل لځسو ټحفص https://<AS_FQDN>/login ښل لځتنا 1. ټوطځل

ټهجو تلالو ټمچرتلل نم ققحتلل > ټدعاسملا تاوډا > ماظنلل ښل لځتنا 2. ټوطځل

ټوعد ټلاسرقصل ب مقو SIP ټلاسرل ښكلساللل رزلل قوف رقنا ، VTRI ماڅتسال 3. ټوطځل
ټوطځ ب ل ط VTR ډي فنننللا ت ق ط ق ط ، كلذ دعب . لاڅډال لځح ښي SIP

Verify Translation and Routing

Run test calls and gather information about the translations, routing, and services for a given call.

OK

Select VTR Type: ☐ Parameters ☒ SIP Message

Enter a SIP message to be used:

INVITE sip:2012@mleus.lab SIP/2.0
Via: SIP/2.0/UDP
10.61.205.219:58300;rport;branch=z9hG4bKPjgINPvPUvoBT57ITOBPsgC#EqE5G
X1aj7
Max-Forwards: 70
From: "Marek Leus"
<sip:5403362011@mleus.lab>;tag=6fU.VILrWc6Wt3JU8WKS.25yaoWEhpc
To: sip:2012@mleus.lab
Contact: "Marek Leus" <sip:5403362011@10.61.205.219:58300:ob>
Call-ID: dTUV8WON9UjmfGCOoJzhLfaj8m11C

Execute VTR request.

VTR Result:

OK

ب. بولطم لوقح ل لك أ لم و ر ز ي ك ل س ل ا ل Parameters تق ط ق ط . VTR ت لم ع ت س ا ل 4. ة و ط خ
ة و ط خ ب ل ط VTR ذ ي ف ن ت ل ا ت ق ط ق ط ك ل ذ د ع ب

Verify Translation and Routing

Run test calls and gather information about the translations, routing, and services for a given call.

OK

Select VTR
Type: ☒ Parameters ☐ SIP Message

* Origination
Type:

* Origination:

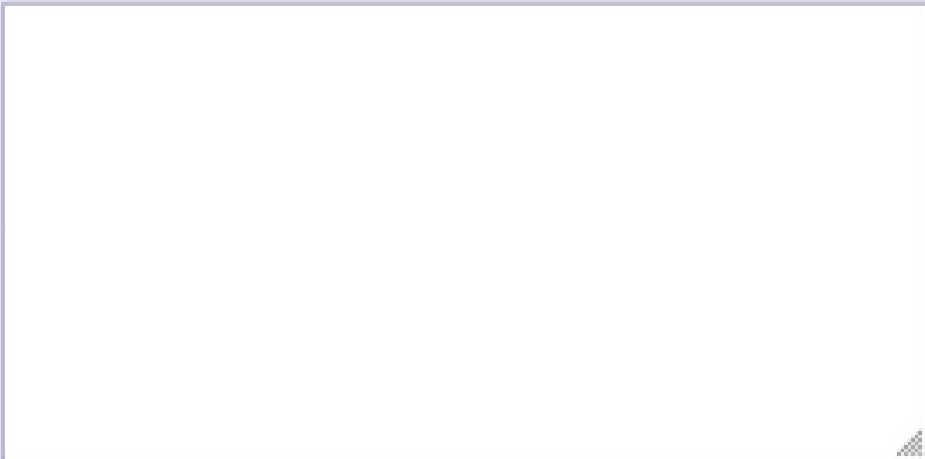
* Destination:

Contact:

Diversion:

[Execute VTR request.](#)

VTR Result:

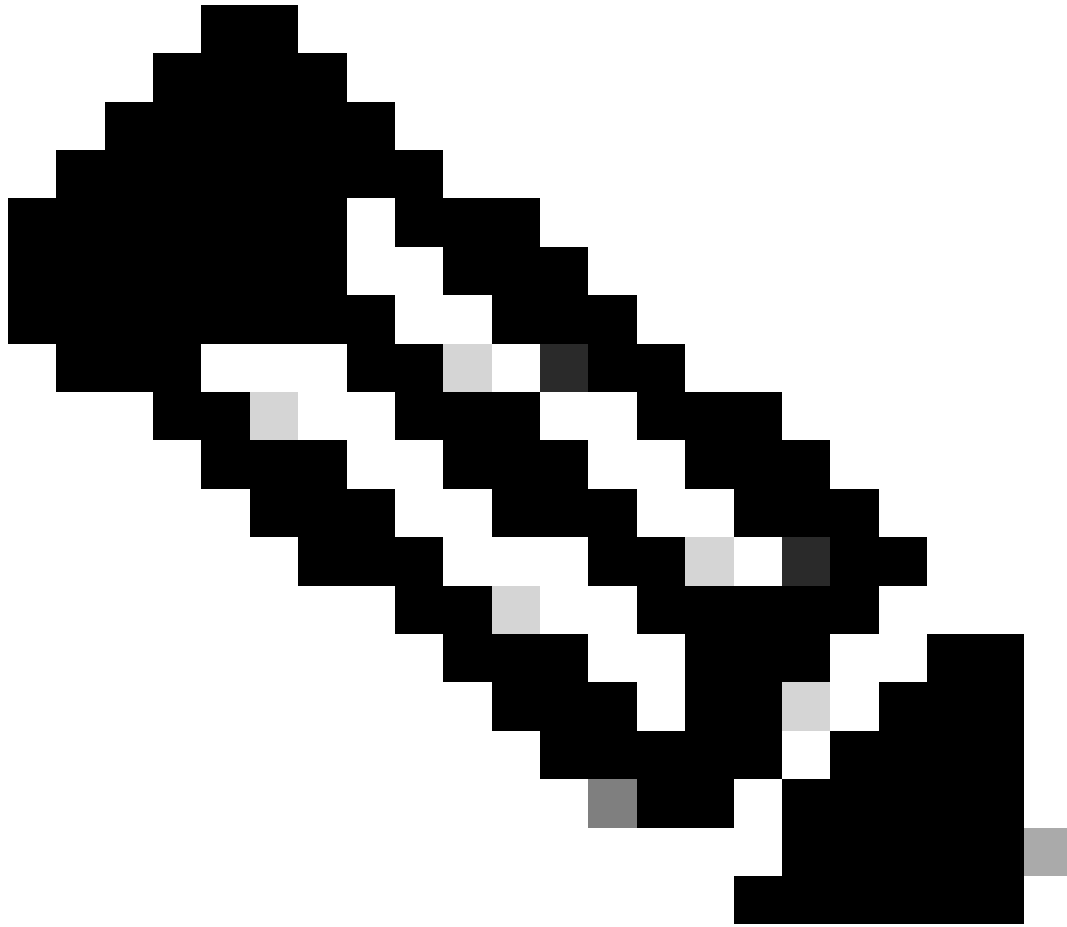


OK

جارخإل في نصت VTR(I)

ماسقأ ةينامث نم فلأتيو. لثامتم VTRI و VTR جئاتن قي سنت

1. دلعل لمعي هنأل VTRI في هيلإ ةجاح ال VTR؛ في طقف ةدوجوم SIP ةوعد وأ تاملعمل ال (ةيقيقح SIP ةلاسر).
2. ئشنمل تامولعم.
3. ةملكمل تامولعم عاشنإ متي.
4. ةئشانللةم جرتللة جيتن.
5. ةملكمل تامولعم اهانإ.
6. جالعل تامولعم.
7. ينمزلل عباطل.
8. ةجيتنل.



vtr userId رمألا جارخا ىلإ دننسملا اذه يف VTR تاجرخم عيجم دننست :ةظحالم
<user_id> <destination_number>، كلذ فالخ ركذي مل ام .

SIP ةوعد وأ تاملعمل

اذه رهظي ال .ةملالكملا ةاكاحمل ةمدختسملا تاملعمل وأ SIP ةوعد وه VTR ةجيتن نم لوألا عزجل
(VTRI مدختست تنك اذا ،رخآ ىنعمب) حيرص لكشب SIP ةوعد ريفوتب تمق اذا مسقلا

لائملا ليبس ىلع .ذفنم/طخ وأ URL ىلع لصلأا نييعت دنن SIP ةوعد عاشنإ متي

```
AS_CLI/ASDiagnostic/Diag> vtr linePort 5403362011@mleus.lab 2012  
VTR Result:
```

```
-----  
Using following SIP INVITE to run VTRI command with Lineport  
-----
```

```
INVITE sip:2012@10.48.93.126 SIP/2.0  
Via:SIP/2.0/UDP 127.0.0.1:5061;branch=vtr-unique-via-branch-26
```

From:"VTR Calling Name"

;tag=26
To:"VTR Called Name"

Call-ID:26
CSeq:26 INVITE
Contact:

Allow:ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REGISTER,UPDATE
Content-Type:application/sdp
Content-Length:410

v=0
o=- 123 123 IN IP4 127.0.0.1
s=-
c=IN IP4 127.0.0.1
t=0 0
m=audio 16428 RTP/AVP 0 2 4 8 18 96 97 98 100 101
a=rtpmap:0 PCMU/8000
a=rtpmap:2 G726-32/8000
a=rtpmap:4 G723/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729a/8000
a=rtpmap:96 G726-40/8000
a=rtpmap:97 G726-24/8000
a=rtpmap:98 G726-16/8000
a=rtpmap:100 NSE/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=ptime:20
a=sendrecv

bwphone نم لكل) فاتاهل وأ مدختسمال فرعم إلى عاشنإل نېيغت مت اذا تاملعملال ضرع متي
الاثمل لېبس إلى ع. (pstnphone و

AS_CLI/ASDiagnostic/Diag> vtr userId ngnuserB1@mleus.lab 2012
VTR Result:

Using following parameters to run short form VTR command

VtrOriginationEvent
vtrKey

origUserId	ngnuserB1@mleus.lab
origUserId	110439218
requestURI equivalent	2012@10.48.93.126:5060
dialedDigits (initial)	2012
deviceEndpoint	5403362011@mleus.lab

ئىشەنچلىك تامولەم

لا يلزم ادخال اسم لصت الماك اذا (لصت الماك) الى الصل الفرطال لوح تامول عم مسقل الاذه رهظي
لا ثمل اليبس يلع . مدخلت سمل لوح ةيل صفت تامول عم ضرع متي ، BroadWorks

```
=====
===== ORIGINATOR INFO =====
=====
[Orig-Id]      VTR Short form trigger.
[Orig-Id]      No Endpoint.
[Orig-Id]      Originating user type: BroadWorks
[Orig-Id]      User Info
[Orig-Id]      User Id                      = ngnuserB1@mleus.lab
[Orig-Id]      User Uid                    = 110439218
[Orig-Id]      Group Id                    = ngngroupB1
[Orig-Id]      Service Provider Id         = ngnentB1
[Orig-Id]      Reseller Id                 = null
[Orig-Id]      ASCII First Name            = Marek
[Orig-Id]      ASCII Last Name             = Leus
[Orig-Id]      Unicode First Name          = Marek
[Orig-Id]      Unicode Last Name           = Leus
[Orig-Id]      Country Code                = 1
[Orig-Id]      User Type                   = User
[Orig-Id]      Trunk User Type              = BroadWorks Regular User
[Orig-Id]      (0) Address type            = main
[Orig-Id]      (0) dn                      = +15403362011
[Orig-Id]      (0) extension               = 2011
[Orig-Id]      activeAsComponentID         = [vnf=null,vnfc=1]
[Orig-Id]      beingRemoved                = false
[Orig-Id]      configurable CLID           = 5403362010
[Orig-Id]      synchronizationASRSentToNS = false
```

ةئشانلا ةملاكُملا تامولعم

نآك اذؑ .بٲترتربالب ءملاكملا نم لصتملأ بناجى لعل شادحأل مدقت درس مٲي ،مسقلا اذه فى تامدخل ال ذيفنت هففى مٲى ذلل ناكملا وه اذهب ،Cisco BroadWorks ل امءختسم لصتملا :الاملا لبسلى عل .ةنىعمل

```
=====
===== ORIGINATING CALL INFO =====
=====
[Orig/CallServiceBus]      CallId is callhalf-60507:0
```

```

[Orig/CallServiceBus]      === Routing InvitationEvent on the Originating Call bus ===

[Orig/CallServiceBus]      TranslationServiceOrigInstance has CONSUMED the event.
[Orig/CallServiceBus]      CallId is callhalf-60507:0
[Orig/CallServiceBus]      === Routing InvitationEvent on the Originating Call bus ===

[Orig/CallServiceBus]      Resuming event processing after TranslationServiceOrigInstance
[Orig/CallServiceBus]      SecurityClassificationServiceInstance has processed the event...continue
(...)
# Output omitted for clarity
(...)
[Orig/CallServiceBus]      EmergencyCallTimerServiceInstance has processed the event...continue
[Orig/ReleaseWithCauseHandler]  Post Processing RWC for Call.

```

ةمچرتلا ةجيتن رادصا

اذه في Cisco BroadWorks ةكبش مداخ نم ةبولطملا ةمچرتلا لوح تامولعم ري فوت متي بلطلا ةطخ ةسايس لوح تامولعمل ضرع متي، ةكبش ةمچرت ىلإ ةجاح كانه تناك اذإ. مسقلا لاثملا لىبس ىلع. ضرغلا اذهل ةلدابتملا SIP لئاسر ضرعي امك. ةمدختسملا

```

=====
=====  ORIGINATING TRANSLATION RESULT  =====
=====
[Orig-Xlation/DialPlanPolicy]  --Dial Plan Policy Information--
[Orig-Xlation/DialPlanPolicy]  requiresAccessCodeForPublicCalls = false
[Orig-Xlation/DialPlanPolicy]  allowE164PublicCalls = false
[Orig-Xlation/DialPlanPolicy]  privateDigitMap =
[Orig-Xlation/DialPlanPolicy]  publicDigitMap = ([2-9]11|[0-1][2-9]11|0[#T]|00|01[2
[Orig-Xlation/DialPlanPolicy]  preferE164FormatForCallbackSvcs = false

[Orig-Xlation/NetworkUsagePolicy]  Network Usage Policy is - do not force all calls to network -
[Orig-Xlation/NetworkServerINVITE]  Sending INVITE event to network server for Translation Service Or
[Orig-Xlation/NetworkServerINVITE]  Endpoint Id: callhalf-60487:0
udp 1128 SIP Bytes OUT to 10.48.93.128:5060
INVITE sip:2014@10.48.93.128;user=phone;transport=udp SIP/2.0
Via:SIP/2.0/UDP 10.48.93.126;branch=z9hG4bKBroadWorks.-iom24c-10.48.93.128V5060-0-960997887-1152157
From:"Marek Leus"

;tag=1152157837-1674811757564-
To:

Call-ID: BW1029175642701231892598132@10.48.93.126
CSeq: 960997887 INVITE
Contact:

P-Asserted-Identity: "Marek Leus"

```

Privacy:none
X-BroadWorks-Correlation-Info:be8fde53-9ba5-4fc4-a788-ee426ed1fe90
Allow:ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY
Supported:
Max-Forwards:10
Content-Type:application/sdp
Content-Length:410

v=0
o=- 123 123 IN IP4 127.0.0.1
s=-
c=IN IP4 127.0.0.1
t=0 0
m=audio 16428 RTP/AVP 0 2 4 8 18 96 97 98 100 101
a=rtpmap:0 PCMU/8000
a=rtpmap:2 G726-32/8000
a=rtpmap:4 G723/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729a/8000
a=rtpmap:96 G726-40/8000
a=rtpmap:97 G726-24/8000
a=rtpmap:98 G726-16/8000
a=rtpmap:100 NSE/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=ptime:20
a=sendrecv

[Orig-Xlation/NS-RESPONSE] Got Network Server response for Translation Service Originating Side client
udp 394 SIP Bytes IN from 10.48.93.128:49109
SIP/2.0 404 Not found
Via:SIP/2.0/UDP 10.48.93.126;branch=z9hG4bKBroadWorks.-iom24c-10.48.93.128V5060-0-960997887-1152157
From:"Marek Leus"

;tag=1152157837-1674811757564-
To:

;tag=1006595920-1674811749882
Call-ID:BW1029175642701231892598132@10.48.93.126
CSeq:960997887 INVITE
Content-Length:0

[Orig-Xlation/TranslationManager]	Translation Client: Translation Service Originating Side call Id i
[Orig-Xlation/TranslationManager]	=== TranslationResult ===
[Orig-Xlation/TranslationManager]	callType Network
[Orig-Xlation/TranslationManager]	address 2014
[Orig-Xlation/TranslationManager]	addressType main
[Orig-Xlation/TranslationManager]	isServiceCode false
[Orig-Xlation/TranslationManager]	sc8Translated false
[Orig-Xlation/TranslationManager]	sc100Translated false
[Orig-Xlation/TranslationManager]	oacTranslated false
[Orig-Xlation/TranslationManager]	carrierPrefixTranslated false
[Orig-Xlation/TranslationManager]	intraSP false
[Orig-Xlation/TranslationManager]	alias false
[Orig-Xlation/TranslationManager]	preExtEmergencyRtgAK null

```
[Orig-Xlation/TranslationManager]    === Carrier Info ===  
[Orig-Xlation/TranslationManager]    ;cse1=noind
```

ةملاكملا تامولعم ءاهنإ

ثادحلأا واهتبيوه لوح تامولعمل ضرع متي ،ةحلاص ةهجو ىلع يوتحت ةملاكملا تناك اذا
ناكملا وه اذه ،يلصلأا ءاعدتسالا تامولعم مسق لثم .ةيمنتنملا ةمدخلا ةلفاح ىلع ةدوجوملا
م تي تي ال SIP ةوعد ضرعي امك .ةهجو لا مدختسملل ةنيعمل تامدخلا ذيفنت هيف متي يذلا
لا ثمل لببس ىلع .ةهجو لا ىلإ اهلاسرا

```
=====  
===== TERMINATING CALL INFO =====  
=====
```

```
[Term/CallManagerServiceBus]    CallManagerId is callhalf-60459  
[Term/CallManagerServiceBus]    === Routing TerminationEvent on the Call Manager bus ===
```

```
[Term/Term-Id]    Terminating user type: BroadWorks  
[Term/Term-Id]    User Info  
[Term/Term-Id]    User Id                = ngnuserB2@mleus.lab  
[Term/Term-Id]    User Uid                = 156778964  
[Term/Term-Id]    Group Id                = ngngroupB1  
[Term/Term-Id]    Service Provider Id     = ngntentB1  
[Term/Term-Id]    Reseller Id             = null  
[Term/Term-Id]    ASCII First Name        = John  
[Term/Term-Id]    ASCII Last Name         = Doe  
[Term/Term-Id]    Unicode First Name      = John  
[Term/Term-Id]    Unicode Last Name       = Doe  
[Term/Term-Id]    Country Code            = 1  
[Term/Term-Id]    User Type               = User  
[Term/Term-Id]    Trunk User Type         = BroadWorks Regular User  
[Term/Term-Id]    (0) Address type        = main  
[Term/Term-Id]    (0) dn                  = +15403362012  
[Term/Term-Id]    (0) extension           = 2012  
[Term/Term-Id]    activeAsComponentID     = [vnf=null,vnfc=1]  
[Term/Term-Id]    beingRemoved            = false  
[Term/Term-Id]    configurable CLID       = 5403362010  
[Term/Term-Id]    synchronizationASRSentToNS = false
```

```
[Term/CallServiceBus]    CallId is callhalf-60459:0  
[Term/CallServiceBus]    === Routing InvitationEvent on the Terminating Call bus ===
```

```
[Term/CallServiceBus]    TranslationServiceTermInstance has processed the event...continue  
[Term/CallServiceBus]    NumberPortabilityQueryServiceTermInstance has processed the event...continue
```

(...)

Output omitted for clarity

(...)

[Term/CallManagerServiceBus] RingTimeoutServiceInstance has processed the event...continue

[Term/SipINVITE] Outgoing resulting INVITE for Endpoint Id: callhalf-60459:0

udp 1195 SIP Bytes OUT to 10.61.71.93:62388

INVITE sip:5403362012@10.61.71.93:62388;transport=UDP;rinstance=c71abb15b3ff5d4a SIP/2.0

Via:SIP/2.0/UDP 10.48.93.126;branch=z9hG4bKBroadWorks.-iom24c-10.61.71.93V62388-0-960978525-1694279

From:"Marek Leus"

;tag=1694279432-1674811718841-

To:"John Doe"

Call-ID:BW102838841270123-1135433227@10.48.93.126

CSeq:960978525 INVITE

Contact:

Supported:100rel

Allow:ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY,UPDATE

Call-Info:

;appearance-index=1

Recv-Info:x-broadworks-client-session-info

Accept:application/media_control+xml,application/sdp,multipart/mixed

Max-Forwards:10

Content-Type:application/sdp

Content-Length:410

v=0

o=- 123 123 IN IP4 127.0.0.1

s=-

c=IN IP4 127.0.0.1

t=0 0

m=audio 16428 RTP/AVP 0 2 4 8 18 96 97 98 100 101

a=rtpmap:0 PCMU/8000

a=rtpmap:2 G726-32/8000

a=rtpmap:4 G723/8000

a=rtpmap:8 PCMA/8000

a=rtpmap:18 G729a/8000

a=rtpmap:96 G726-40/8000

a=rtpmap:97 G726-24/8000

a=rtpmap:98 G726-16/8000

a=rtpmap:100 NSE/8000

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

a=ptime:20

a=sendrecv

جالعمال تامولعم

امك. ةملالكمل لشفل الصفم اببس يطعيو. ةحجانل ريغ تاملاكملل طقف دوجوم مسقلا اذه اذهل ةملالكمل لشفل ةلاح يف طئاسولا مداخل اهمدختسي يتلا ةربنل/نالعال اب ةحئال درست لاثمل لابس ىلع. بابسلا

```
=====
===== TREATMENT INFORMATION =====
=====
[Treatment/TreatmentsService] Treatment service processing RWC. Release Cause is FORBIDDEN
[Treatment/TreatmentsService] defaultAnnouncement isTrtCallFailure.wav
[Treatment/TreatmentsService] defaultTone is reorder-pcmu.wav

[Treatment/TreatmentsService] Configurable Treatment NOT used but specific audio treatment files have
[Treatment/TreatmentsService] audioAnnouncement(s):
[Treatment/TreatmentsService] https://10.48.93.126/media/en/TrtSelectCallReject.wav
[Treatment/TreatmentsService] https://10.48.93.126/media/en/silence10s.wav
[Treatment/TreatmentsService] https://10.48.93.126/media/en/TrtSelectCallReject.wav
```

ةينمزل عباوطلال

XSLogs عم VTTRI يف ثادحأل طبرل عاعدتسالل ةينمزل عباوطلال مادختسا نكمي

ةجيتن

يه ةلمتحملم ميقل، رابتخال لاصتال ةئاهنل ةجيتنل

- ةرداصلال ةوعدلا ضرع متي. ديعبال فرطال ىلإ حاجنب ةملالكمل عيسوت نكمي - حومسم ةملالكمل تامولعم ءاهنل مسق يف
- نوئي نأ نكمي. ةيداع ريغ ةلاح وأ جهن دوجو بابسب ةملالكمل دادعإ رطح مت - روطحم (ببسل بسح) ءاهنل باناج ىلع وأ عاشنل باناج ىلع اما ببسل
- هيحوتل ةداعإ ةهجو ديدحت متي. طرش نود ةملالكمل هيحوت ةداعإ مت - هيحوتل ةداعإ ريرقتل يف اهراظإو
- دحل ىلإ لوصول متوحي حص لكشب رابتخال ةملالكمل ءاهتنا عنم ام عيش ثدح - ةلهمل متي ال نكل، ةرفوتمل تامولعملل مادختسا نكمي. ناوث 10 هتدم يذل يخلادل ينمزل ةئاهنل ةجيتنل ضرع
- (IVR) يلعافت يتوص در نوئي ام ةداع) ايلخاد يمالعإ نوكم ليغشت مت - مالعإل

نكلو قلاحة هذه في رابخالال تاملكم فاقلي متي .ماقرأ عمج وأ ددحم نالعل ليغشتل
ةطقنل هذه ىتح ثادحألل ضرعي ريرقتل

تاملكم لقفدتو ةكبشلال ططخم

دنتسملا اذه في سياسأ اعادتسإ ويرانيس مادختسإ متي ،طيسبتلل

- AS. في ةرشابم Softphone تاقيبطت ليحست متي
- ةعومحمل سفن في نيمدختسملا عيمج
- ةمدختسم هيحوت ةداعإ وأ مامألل اعادتسإ دجوي ال

تاملكملا تاهويرانيس

2011 قحلمل رماوأ هيدل يذل مدختسملا موقلي شيح تاهويرانيس ةثالث دنتسملا اذه يطغي
ل:لسلستلاب

1. لجسم زاهجل هنييغت متي يذل، 2012 قحلمل.
2. Extension 2012، لجسم زاهجل هنييغت متي يذلاو،
ةشاشل طاقتل في حضورم وه امك 2011 ماع نم ةملكملل ضرل "يئاقتنال تاملكملا
اذه:

Selective Call Acceptance

Selective Call Acceptance allows you to receive only calls that meet your pre-defined criteria. The criteria for each Selective Acceptance entry can be a list of up to 12 phone numbers or digit patterns, specified called number(s), a specified time schedule and a specified holiday schedule. All criteria for an entry must be true for you to receive the call.

OKApplyAddCancel					
Active	Description	Accept	Calls from	Calls to	Edit
☒	Reject_2011	No	5403362011	Any Number	Edit
OKApplyAddCancel					

3. مدختسم يأل هنييغت متي مل يذل، 2014 قحلمل.

ةحجان ةملكملل 1: ويرانيسلل

لالخ نم رخآ يلحم مدختسم لاسراب نييلحملا نيمدختسملا دحأ موقلي ،ويرانيسلل اذه في
ه:ع ديزملل ةفرعمل ةملكملل هذل VTR جارخا ضرعن انعد .هدادتما

```
AS_CLI/ASDiagnostic/Diag> vtr userId ngnuserB1@mleus.lab 2012
VTR Result:
```

Using following parameters to run short form VTR command

```
VtrOriginationEvent
vtrKey          12
origUserId      ngnuserB1@mleus.lab
origUserUId     110439218
requestURI equivalent 2012@10.48.93.126:5060
dialedDigits (initial) 2012
deviceEndpoint  5403362011@mleus.lab
```

رمال نم تاملعمل مچرتب AS موقت فيك ىرت نأ كنكمي VTR، جئاتن نم لوال مسقلا في
vtr نىوانع ىل SIP URLs:

- لصتمال: 5403362011@mleus.lab
- ةجول: 2012@10.48.93.126:5060

```
=====
===== ORIGINATOR INFO =====
=====
[Orig-Id] VTR Short form trigger.
[Orig-Id] No Endpoint.
[Orig-Id] Originating user type: BroadWorks
[Orig-Id] User Info
[Orig-Id] User Id = ngnuserB1@mleus.lab
[Orig-Id] User Uid = 110439218
[Orig-Id] Group Id = ngngroupB1
[Orig-Id] Service Provider Id = ngnntB1
[Orig-Id] Reseller Id = null
[Orig-Id] ASCII First Name = Marek
[Orig-Id] ASCII Last Name = Leus
[Orig-Id] Unicode First Name = Marek
[Orig-Id] Unicode Last Name = Leus
[Orig-Id] Country Code = 1
[Orig-Id] User Type = User
[Orig-Id] Trunk User Type = BroadWorks Regular User
[Orig-Id] (0) Address type = main
[Orig-Id] (0) dn = +15403362011
[Orig-Id] (0) extension = 2011
[Orig-Id] activeAsComponentID = [vnf=null,vnfc=1]
[Orig-Id] beingRemoved = false
[Orig-Id] configurable CLID = 5403362010
[Orig-Id] synchronizationASRSentToNS = false
```

مسقلا اذه نم. مدختسملاب ةقلعتمال لىصافتلا لك عبطت، يلحم لصتمال نأل، م،
هدادتما وه امو (Leus) ريخال مسال او (Marek) مدختسملل لوال مسالا ىل فرعلا كنكمي
ةومجمل/ةسسؤملا يه امو (+15403362011) لمالكلا مقرلا وه ام ىل إفاضال، (2011)
اهل لىمتني يتلا (NgnngntB1/ngngroupB1).

```
=====
===== ORIGINATING CALL INFO =====
=====
[Orig/CallServiceBus] CallId is callhalf-60455:0
[Orig/CallServiceBus] === Routing InvitationEvent on the Originating Call bus ===

[Orig/CallServiceBus] TranslationServiceOrigInstance has CONSUMED the event.
[Orig/CallServiceBus] CallId is callhalf-60455:0
[Orig/CallServiceBus] === Routing InvitationEvent on the Originating Call bus ===

[Orig/CallServiceBus] Resuming event processing after TranslationServiceOrigInstance
[Orig/CallServiceBus] SecurityClassificationServiceInstance has processed the event...continue
[Orig/CallServiceBus] CMServiceInstance has processed the event...continue
[Orig/CallServiceBus] ReturnCallServiceInstance has processed the event...continue
```

```

[Orig/CallServiceBus] LNDServiceInstance has processed the event...continue
[Orig/CallServiceBus] GETSServiceInstance has processed the event...continue
[Orig/CallServiceBus] EnhancedCallLogsServiceInstance has processed the event...continue
[Orig/CallServiceBus] LocationControlServiceInstance has processed the event...continue
[Orig/CallServiceBus/OCPOriginatorServiceInstance] OCPOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus/OCPOriginatorServiceInstance] Validating origination. Using call type Group
[Orig/CallServiceBus/OCPOriginatorServiceInstance] Validation returned disposition Allow - OCP call

[Orig/CallServiceBus] ACRFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] NPAnnouncementServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallCenterAgentCallServiceInstance has processed the event...continue
[Orig/CallServiceBus] PTTOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus] LegacyACBServiceInstance has processed the event...continue
[Orig/CallServiceBus] AutomaticCallbackServiceInstance has processed the event...continue
[Orig/CallServiceBus] TreatmentsServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFAlwaysFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] SCFFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallWaitingFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] VMServiceInstance has processed the event...continue
[Orig/CallServiceBus] AnswerTimerFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] DNDFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CPCServiceInstance has processed the event...continue
[Orig/CallServiceBus] ClassmarkServiceInstance has processed the event...continue
[Orig/CallServiceBus] VAOCallServiceInstance has processed the event...continue
[Orig/CallServiceBus] AoCServiceInstance has processed the event...continue
[Orig/CallServiceBus] EmergencyCallTimerServiceInstance has processed the event...continue
[Orig/CallServiceBus] SCRFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] ExecutiveAssistantOrigServiceInstance has processed the event...continue
[Orig/VTR_FINAL] Triggering report.

```

ي ف تامولعمل نم ريثكك ل دجوي الف ،ةنكمم تامدخ هب دجوت ال طيسب مدختسم هنأل ارظن مسقلا إلى اريخأ لقنيو ،رخأ دعب ةمدخ ققحتي AS ل . "ي لصلأ ل اصتال تامولعم" مسق اذه طبيري نأ تنأ ديرى نأ . ةيعامج ةملاكه اهنأ إلى ةملاكه هذه فرعت امك . VTR ل نم يلاتل ،مسق اذه نم (callHalf-60455) ID callHalf ل تجرختسا عيطتسي تنأ ،XSLogs عم لي لحت VTR لاثم ل ليبس إلى ع . دربم لجسلا يف ءاعدتسا اذه دجي نأ وه تلمعتسا كلذ دعبو

```

bwadmin@as1.mleus.lab$ less XSLog2023.01.27-00.00.00.txt | grep callhalf-60455
2023.01.27 10:28:38:819 CET | Info | Sip | BCCT Worker #1 | 3104778 | +15403362011 | callhalf-60455
$ new CHSS > +15403362011 > > callhalf-60455
2023.01.27 10:28:38:819 CET | FieldDebug | StateReplication | BCCT Worker #1 | 3104779 | +15403362011 |
2023.01.27 10:28:38:821 CET | Info | CallP | Call Half Input Adapter 5 | 3104780 | Call Manager |

```

ةمجرتلل ةجيتن رادصا وه يلاتل مسقلا:

```

=====
===== ORIGINATING TRANSLATION RESULT =====
=====
[Orig-Xlation/DialPlanPolicy] --Dial Plan Policy Information--
[Orig-Xlation/DialPlanPolicy] requiresAccessCodeForPublicCalls = false
[Orig-Xlation/DialPlanPolicy] allowE164PublicCalls = false
[Orig-Xlation/DialPlanPolicy] privateDigitMap =
[Orig-Xlation/DialPlanPolicy] publicDigitMap = ([2-9]11|[0-1][2-9]11|0[#T]|00|01[2

```

[Orig-Xlation/DialPlanPolicy] preferE164FormatForCallbackSvcs = false

[Orig-Xlation/NetworkUsagePolicy] Network Usage Policy is - do not force all calls to network -
[Orig-Xlation/TranslationManager] Translation Client: Translation Service Originating Side call Id i
[Orig-Xlation/TranslationManager] === TranslationResult ===
[Orig-Xlation/TranslationManager] callType Group
[Orig-Xlation/TranslationManager] address 2012
[Orig-Xlation/TranslationManager] destination uid 156778964
[Orig-Xlation/TranslationManager] destination user Id ngnuserB2@mleus.lab
[Orig-Xlation/TranslationManager] addressType main
[Orig-Xlation/TranslationManager] originalAddress 2012
[Orig-Xlation/TranslationManager] dgcAlternateAddress 2012
[Orig-Xlation/TranslationManager] isServiceCode false
[Orig-Xlation/TranslationManager] sc8Translated false
[Orig-Xlation/TranslationManager] sc100Translated false
[Orig-Xlation/TranslationManager] oacTranslated false
[Orig-Xlation/TranslationManager] carrierPrefixTranslated false
[Orig-Xlation/TranslationManager] intraSP false
[Orig-Xlation/TranslationManager] alias false
[Orig-Xlation/TranslationManager] preExtEmergencyRtgAK null

ة.نعم ةملاكم ىلع اهقيبطت متي يتل بلطل ةطخ ىلع فرعتل كنكمي ،مسقل اذه نم
مدختسمل الى اوهي جوت متي وةومجمل لخاد ةملاكم هأب جارخا الى غلبي ،ةملاكم اذه
مدختسمل اذه لوح دي زملي لالتل مسقل انربخي .ngnuserB2@mleus.lab

=====
===== TERMINATING CALL INFO =====
=====

[Term/CallManagerServiceBus] CallManagerId is callhalf-60459
[Term/CallManagerServiceBus] === Routing TerminationEvent on the Call Manager bus ===

[Term/Term-Id] Terminating user type: BroadWorks
[Term/Term-Id] User Info
[Term/Term-Id] User Id = ngnuserB2@mleus.lab
[Term/Term-Id] User Uid = 156778964
[Term/Term-Id] Group Id = ngngroupB1
[Term/Term-Id] Service Provider Id = ngntentB1
[Term/Term-Id] Reseller Id = null
[Term/Term-Id] ASCII First Name = John
[Term/Term-Id] ASCII Last Name = Doe
[Term/Term-Id] Unicode First Name = John
[Term/Term-Id] Unicode Last Name = Doe
[Term/Term-Id] Country Code = 1
[Term/Term-Id] User Type = User
[Term/Term-Id] Trunk User Type = BroadWorks Regular User
[Term/Term-Id] (0) Address type = main
[Term/Term-Id] (0) dn = +15403362012
[Term/Term-Id] (0) extension = 2012
[Term/Term-Id] activeAsComponentID = [vnf=null,vnfc=1]
[Term/Term-Id] beingRemoved = false
[Term/Term-Id] configurable CLID = 5403362010
[Term/Term-Id] synchronizationASRSentToNS = false

اقباس لالحل ناك امك لاصتال اذه لوح لي صافاتل سفن ىلع فرعتت ،عزل اذه نم

لمالك ال مقرراو، (2012) دادت مالو، (John DoE) ةلئاعال مساول لوال مسال: لصت ملل
(+15403362012)، ةومحمل/ةسسؤمل نع الضف، (ngnntB1/ngngroupB1).

```
[Term/CallServiceBus]      CallId is callhalf-60459:0
[Term/CallServiceBus]      === Routing InvitationEvent on the Terminating Call bus ===

[Term/CallServiceBus]      TranslationServiceTermInstance has processed the event...continue
[Term/CallServiceBus]      NumberPortabilityQueryServiceTermInstance has processed the event...continue
[Term/CallServiceBus]      CMServiceInstance has processed the event...continue
[Term/CallServiceBus]      GETSServiceInstance has processed the event...continue
[Term/CallServiceBus]      CallCenterAgentCallServiceInstance has processed the event...continue
[Term/CallServiceBus]      OCPTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]      ICPServiceInstance has processed the event...continue
[Term/CallServiceBus]      ACRServiceInstance has processed the event...continue
[Term/CallServiceBus/SCRServiceInstance] Criteria Set(s) evaluated but not triggered:
[Term/CallServiceBus/SCRServiceInstance]
[Term/CallServiceBus/SCRServiceInstance] Criteria Set:
[Term/CallServiceBus/SCRServiceInstance] description: Reject_all
[Term/CallServiceBus/SCRServiceInstance] active: false
[Term/CallServiceBus/SCRServiceInstance] blacklistFlag: false
[Term/CallServiceBus/SCRServiceInstance] ScheduleCriteria
[Term/CallServiceBus/SCRServiceInstance] - No Schedule associated
[Term/CallServiceBus/SCRServiceInstance] - inScheduleRightNow: true
[Term/CallServiceBus/SCRServiceInstance] CallingPartyAddressCriteria
[Term/CallServiceBus/SCRServiceInstance] Any Address
[Term/CallServiceBus/SCRServiceInstance] CallToCriteria
[Term/CallServiceBus/SCRServiceInstance] CallTo matches ANY

[Term/CallServiceBus]      SCRServiceInstance has processed the event...continue
[Term/CallServiceBus]      PTTTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]      LNRServiceInstance has processed the event...continue
[Term/CallServiceBus]      EnhancedCallLogsServiceInstance has processed the event...continue
[Term/CallServiceBus]      GroupNightForwardingServiceInstance has processed the event...continue
[Term/CallServiceBus]      FaxMessagingServiceInstance has processed the event...continue
[Term/CallServiceBus]      SCFServiceInstance has processed the event...continue
[Term/CallServiceBus]      CFAlwaysTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]      DNDSerivceInstance has processed the event...continue
[Term/CallServiceBus]      PersonalAssistantServiceInstance has processed the event...continue
[Term/CallServiceBus]      CallWaitingTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]      PreAlertingAnnouncementServiceInstance has processed the event...continue
[Term/CallServiceBus]      AnswerTimerServiceInstance has processed the event...continue
[Term/CallServiceBus]      VMServiceInstance has processed the event...continue
[Term/CallServiceBus]      RedirectionServiceInstance has processed the event...continue
[Term/CallServiceBus]      SecurityClassificationServiceInstance has processed the event...continue
[Term/CallServiceBus]      ExecutiveTermServiceInstance has processed the event...continue
[Term/CallServiceBus]      ExecutiveAssistantTermServiceInstance has processed the event...continue
```

اهني عت مت طقف ةدحاو ةمدخ كانه. تامدخال عي مج نم ققحتال متي، مسقلا اذه في كلذ دعب
ةديحول ريعال ملةومجمنكلو، (يئاقنتال تاملكمل لوبق) مدختسمل اذهل
ةلحرمل الى VTR ليلحت لقنيو هليغشت متي ال، كلذل. ةطشن ريغ (REJECT_2011)
ليلحتلل ةيئاهنل ةجيتنل رهظت يتلاو، "ةملكمل اهان تامولعم" مسق نم ةيلاتل.

```
[Term/CallManagerServiceBus] CallManagerId is callhalf-60459
[Term/CallManagerServiceBus] === Routing InvitationEvent on the Call Manager bus ===
```

[Term/CallManagerServiceBus] AccessRoutingServiceInstance has processed the event...continue
[Term/CallManagerServiceBus] VA0ServiceInstance has processed the event...continue
[Term/CallManagerServiceBus] TSDServiceInstance has processed the event...continue
[Term/CallManagerServiceBus] SCAPServiceInstance has processed the event...continue
[Term/CallManagerServiceBus] CallCenterAgentServiceInstance has processed the event...continue
[Term/CallManagerServiceBus] FlashServiceInstance has processed the event...continue
[Term/CallManagerServiceBus] RingTimeoutServiceInstance has processed the event...continue
[Term/SipINVITE] Outgoing resulting INVITE for Endpoint Id: callhalf-60459:0
udp 1195 SIP Bytes OUT to 10.61.71.93:62388
INVITE sip:5403362012@10.61.71.93:62388;transport=UDP;rinstance=c71abb15b3ff5d4a SIP/2.0
Via:SIP/2.0/UDP 10.48.93.126;branch=z9hG4bKBroadWorks.-iom24c-10.61.71.93V62388-0-960978525-1694279
From:"Marek Leus"

;tag=1694279432-1674811718841-
To:"John Doe"

Call-ID:BW102838841270123-1135433227@10.48.93.126
CSeq:960978525 INVITE
Contact:

Supported:100rel
Allow:ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY,UPDATE
Call-Info:

;appearance-index=1
Recv-Info:x-broadworks-client-session-info
Accept:application/media_control+xml,application/sdp,multipart/mixed
Max-Forwards:10
Content-Type:application/sdp
Content-Length:410

v=0
o=- 123 123 IN IP4 127.0.0.1
s=-
c=IN IP4 127.0.0.1
t=0 0
m=audio 16428 RTP/AVP 0 2 4 8 18 96 97 98 100 101
a=rtpmap:0 PCMU/8000
a=rtpmap:2 G726-32/8000
a=rtpmap:4 G723/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729a/8000
a=rtpmap:96 G726-40/8000
a=rtpmap:97 G726-24/8000
a=rtpmap:98 G726-16/8000
a=rtpmap:100 NSE/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=ptime:20
a=sendrecv

تنالك اذا فيئاهنلله جولا الى اهعيسوت مئيس يئلل ةوعدللا سريئرئ مئسقلل اذه نم نكمي يذل (callHalf-60459) اعءءسالل فرعم جارءسلا اضيا كنكمي .ةيقيقءة ملاءم لءسلا ءافل م في اعءءسالل اذه عبءءل هماءءسلا

```

badmin@as1.mleus.lab$ less XSLog2023.01.27-00.00.00.txt | grep callhalf-60459
2023.01.27 10:28:38:827 CET | Info          | Sip | Call Half Input Adapter 5 | 3104796 | +15403362012 | c
    $ new CHSS > +15403362012 > callhalf-60455:0 > callhalf-60459
2023.01.27 10:28:38:827 CET | FieldDebug | StateReplication | Call Half Input Adapter 5 | 3104797 | +15
2023.01.27 10:28:38:827 CET | Info          | CallP | Call Half Input Adapter 0 | 3104798 | Call Manager |

```

لحلحتل اذهل ينمزلل عباطلاو ةيئاهنلل ةجيتنلل ناريلأل نامسقلل رهظي:

```
=====
=====
                        T I M E S T A M P S                      =====
=====
[Timestamps]      Start time = 2023.01.27 10:28:38.819 CET
[Timestamps]      End   time  = 2023.01.27 10:28:38.846 CET
```

```
=====
===== RESULT: ALLOWED =====
=====
```

معدل الكم لوبق ممدخ ماساوب ممالكم لاض فرمت :يناثل ويراني سلا
ةيئاقتنال

نم رخآ يلحم مدختسم قارغاب رخأ ةرم نييلحمل نيمدختسم لدحأ موق ي، ويرانيسلا اذه ي
ضفرل "يئاقتنالا تاملكملا لوبق" نيوكت متي ةرمل اذه، كلذ عمو؛ همدختسل ديدمت لال
هه: هن ديزمل ةفرعمل ةملكمل اذهل VTR جارخا ضرعن انعد. ةملكمل اذه

```
AS_CLI/ASDiagnostic/Diag> vtr userId ngnuserB1@m1eus.lab 2012
VTR Result:
```

Using following parameters to run short form VTR command

VtrOriginationEvent	
vtrKey	16
origUserId	nqnuserB1@mleus.lab

origUserId 110439218
requestURI equivalent 2012@10.48.93.126:5060
dialedDigits (initial) 2012
deviceEndpoint 5403362011@mleus.lab

رمأل نم طئارخالاب AS تاملعم موقت فيك ىرت نأ كنكمي VTR، جئاتن نم لوال مسقلا في
SIP URLs: نيوانع ىلإ vtr

- لصتملا: 5403362011@mleus.lab
- ةهوجل: 2012@10.48.93.126:5060

صاخلا ئشنملا تامولعم مسق ناف، لوالا ويرانيسلا في امك لصتملا سفن امامت وه هنأل
تامولعم" مسق ىلإ لىلحتلا رمتسي وحوصولل هي طخت متي، كذل. امامت هسفن وه اذهب
الى لصال لاصتال:

```
=====
===== ORIGINATING CALL INFO =====
=====
[Orig/CallServiceBus] CallId is callhalf-60507:0
[Orig/CallServiceBus] === Routing InvitationEvent on the Originating Call bus ===

[Orig/CallServiceBus] TranslationServiceOrigInstance has CONSUMED the event.
[Orig/CallServiceBus] CallId is callhalf-60507:0
[Orig/CallServiceBus] === Routing InvitationEvent on the Originating Call bus ===

[Orig/CallServiceBus] Resuming event processing after TranslationServiceOrigInstance
[Orig/CallServiceBus] SecurityClassificationServiceInstance has processed the event...continue
[Orig/CallServiceBus] CMServiceInstance has processed the event...continue
[Orig/CallServiceBus] ReturnCallServiceInstance has processed the event...continue
[Orig/CallServiceBus] LNDServiceInstance has processed the event...continue
[Orig/CallServiceBus] GETSServiceInstance has processed the event...continue
[Orig/CallServiceBus] EnhancedCallLogsServiceInstance has processed the event...continue
[Orig/CallServiceBus] LocationControlServiceInstance has processed the event...continue
[Orig/CallServiceBus/OCPOriginatorServiceInstance] OCPOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus/OCPOriginatorServiceInstance] Validating origination. Using call type Group
[Orig/CallServiceBus/OCPOriginatorServiceInstance] Validation returned disposition Allow - OCP call

[Orig/CallServiceBus] ACRFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] NPAnnouncementServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallCenterAgentCallServiceInstance has processed the event...continue
[Orig/CallServiceBus] PTTOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus] LegacyACBServiceInstance has processed the event...continue
[Orig/CallServiceBus] AutomaticCallbackServiceInstance has processed the event...continue
[Orig/CallServiceBus] TreatmentsServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFAlwaysFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] SCFFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallWaitingFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] VMServiceInstance has processed the event...continue
[Orig/CallServiceBus] AnswerTimerFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] DNDFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CPCServiceInstance has processed the event...continue
[Orig/CallServiceBus] ClassmarkServiceInstance has processed the event...continue
[Orig/CallServiceBus] VAOCallServiceInstance has processed the event...continue
```

```

[Orig/CallServiceBus] AoCServiceInstance has processed the event...continue
[Orig/CallServiceBus] EmergencyCallTimerServiceInstance has processed the event...continue
[Orig/CallServiceBus] SCRFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] ExecutiveAssistantOrigServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallId is callhalf-60507:0
[Orig/CallServiceBus] === Routing ReleaseWithCauseEvent on the Originating Call bus ===

[Orig/CallServiceBus] TranslationServiceOrigInstance has processed the event...continue
[Orig/CallServiceBus] CallTransferRecallServiceInstance has processed the event...continue
[Orig/CallServiceBus] CMServiceInstance has processed the event...continue
[Orig/CallServiceBus] GETSServiceInstance has processed the event...continue
[Orig/CallServiceBus] EnhancedCallLogsServiceInstance has processed the event...continue
[Orig/CallServiceBus] OCPOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallCenterAgentCallServiceInstance has processed the event...continue
[Orig/CallServiceBus] PTTOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallParkServiceInstance has processed the event...continue
[Orig/CallServiceBus] LegacyACBServiceInstance has processed the event...continue
[Orig/CallServiceBus] AutomaticCallbackServiceInstance has processed the event...continue
[Orig/CallServiceBus/TreatmentsServiceInstance] TreatmentsServiceInstance has processed the event...
[Orig/CallServiceBus/TreatmentsServiceInstance] Treatments Service would have started the announceme
[Orig/CallServiceBus/TreatmentsServiceInstance] Letting event continue to release test call resource

[Orig/CallServiceBus] CallWaitingFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFBusyFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFNoAnswerFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] VMServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFNotReachableFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] DirectedCallPickupServiceInstance has processed the event...continue
[Orig/CallServiceBus] DPUBIServiceInstance has processed the event...continue
[Orig/CallServiceBus] AnswerTimerFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] MusicOnHoldServiceInstance has processed the event...continue
[Orig/CallServiceBus] AoCServiceInstance has processed the event...continue
[Orig/CallServiceBus] EmergencyCallTimerServiceInstance has processed the event...continue
[Orig/ReleaseWithCauseHandler] Post Processing RWC for Call.

```

نكلو. ةومجم ةملاككم ءاعدتسالال فرعي وهو AS ل فورعم ةهجولا مقر نأ مسقلا اذه حضوي
 Routing " ةرابع كانه، الوأ. ئطاخ ءيش كالانه ناك اذا ام اوددحت نا اضيأ مك نكمي
 لىلغو. نالومشم TreatmentService ليثمو "Originating Call Bus" في ReleaseWithCauseEvent
 ReleaseWithCauseHandler مادختساب مسقلا نم ءاهتالال متي، لثامم وحن

1 ويرانيسلال نم مسقلا عم قباطت يتلاو، "ءيصلأل ةمجرتلال ةجيتن" وه يلاتال مسقلا
 قرفال رهظي. حوضولل ريرقتال اذه لفغي، كذللو. مدختسملال سفن لىل ءجوم ءاعدتسالال نأل
 ةملاكمل تامولعم ءاهنإ مسق في

```

=====
===== TERMINATING CALL INFO =====
=====
[Term/CallManagerServiceBus] CallManagerId is callhalf-60511
[Term/CallManagerServiceBus] === Routing TerminationEvent on the Call Manager bus ===

[Term/Term-Id] Terminating user type: BroadWorks
[Term/Term-Id] User Info
[Term/Term-Id] User Id = ngnuserB2@m1eus.1ab
[Term/Term-Id] User Uid = 156778964

```

```

[Term/Term-Id]      Group Id                = ngngroupB1
[Term/Term-Id]      Service Provider Id      = ngnentB1
[Term/Term-Id]      Reseller Id              = null
[Term/Term-Id]      ASCII First Name         = John
[Term/Term-Id]      ASCII Last Name          = Doe
[Term/Term-Id]      Unicode First Name       = John
[Term/Term-Id]      Unicode Last Name        = Doe
[Term/Term-Id]      Country Code             = 1
[Term/Term-Id]      User Type                = User
[Term/Term-Id]      Trunk User Type          = BroadWorks Regular User
[Term/Term-Id]      (0) Address type         = main
[Term/Term-Id]      (0) dn                   = +15403362012
[Term/Term-Id]      (0) extension            = 2012
[Term/Term-Id]      activeAsComponentID      = [vnf=null,vnfc=1]
[Term/Term-Id]      beingRemoved             = false
[Term/Term-Id]      configurable CLID        = 5403362010
[Term/Term-Id]      synchronizationASRSentToNS = false

[Term/CallServiceBus]  CallId is callhalf-60511:0
[Term/CallServiceBus]  === Routing InvitationEvent on the Terminating Call bus ===

[Term/CallServiceBus]  TranslationServiceTermInstance has processed the event...continue
[Term/CallServiceBus]  NumberPortabilityQueryServiceTermInstance has processed the event...continue
[Term/CallServiceBus]  CMServiceInstance has processed the event...continue
[Term/CallServiceBus]  GETSServiceInstance has processed the event...continue
[Term/CallServiceBus]  CallCenterAgentCallServiceInstance has processed the event...continue
[Term/CallServiceBus]  OCPTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]  ICPServiceInstance has processed the event...continue
[Term/CallServiceBus]  ACRServiceInstance has processed the event...continue
[Term/CallServiceBus/SCASServiceInstance]  Criteria Set evaluated and triggered:
[Term/CallServiceBus/SCASServiceInstance]
[Term/CallServiceBus/SCASServiceInstance]  Criteria Set:
[Term/CallServiceBus/SCASServiceInstance]  description: Reject_2011
[Term/CallServiceBus/SCASServiceInstance]  active: true
[Term/CallServiceBus/SCASServiceInstance]  blacklistFlag: true
[Term/CallServiceBus/SCASServiceInstance]  ScheduleCriteria
[Term/CallServiceBus/SCASServiceInstance]  - No Schedule associated
[Term/CallServiceBus/SCASServiceInstance]  - inScheduleRightNow: true
[Term/CallServiceBus/SCASServiceInstance]  CallingPartyAddressCriteria
[Term/CallServiceBus/SCASServiceInstance]  +15403362011
[Term/CallServiceBus/SCASServiceInstance]  CallToCriteria
[Term/CallServiceBus/SCASServiceInstance]  CallTo matches ANY

[Term/CallServiceBus]  SCASServiceInstance has CONSUMED the event.
[Term/CallServiceBus]  CallId is callhalf-60511:0
[Term/CallServiceBus]  === Routing ReleaseWithCauseEvent on the Terminating Call bus ===
[Term/CallServiceBus]  TranslationServiceTermInstance has processed the event...continue
[Term/CallServiceBus]  CMServiceInstance has processed the event...continue
[Term/CallServiceBus]  CallParkServiceInstance has processed the event...continue
[Term/CallServiceBus]  GETSServiceInstance has processed the event...continue
[Term/CallServiceBus]  CallCenterAgentCallServiceInstance has processed the event...continue
[Term/CallServiceBus]  OCPTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]  PTTTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]  LNRServiceInstance has processed the event...continue
[Term/CallServiceBus]  EnhancedCallLogsServiceInstance has processed the event...continue
[Term/CallServiceBus]  PersonalAssistantServiceInstance has processed the event...continue
[Term/CallServiceBus]  CallWaitingTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]  CFBusyTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]  AnswerTimerServiceInstance has processed the event...continue
[Term/CallServiceBus]  CFNotReachableTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]  CFNoAnswerTerminatorServiceInstance has processed the event...continue
[Term/CallServiceBus]  VMServiceInstance has processed the event...continue

```

```
[Term/CallServiceBus] DirectedCallPickupServiceInstance has processed the event...continue
[Term/CallServiceBus] DPUBIServiceInstance has processed the event...continue
[Term/CallServiceBus] RedirectionServiceInstance has processed the event...continue
[Term/CallServiceBus] MusicOnHoldServiceInstance has processed the event...continue
```

م تي ك لذل ةجيتنو. ةطشن REJECT_2011 ريياعم ةعومجم ةرملا هذه نأ ىرت نأ كنكمي
عفرم تي، ك لذل ةجيتنو. "يئاقتنال تاملكملا لوبق" ةمدخ ليغشت
يقاب نم ققحتي فلقستسملا ماطنلا أم. ةملاكمل اهان لقان ىلع ReleaseWithCauseEvent
"ةجالعمل تامولعم" مسق ىلإ لقنتنيو تامدخل

```
=====
===== TREATMENT INFORMATION =====
=====
[Treatment/TreatmentsService] Treatment service processing RWC. Release Cause is FORBIDDEN
[Treatment/TreatmentsService] defaultAnnouncement isTrtCallFailure.wav
[Treatment/TreatmentsService] defaultTone is reorder-pcmu.wav

[Treatment/TreatmentsService] Configurable Treatment NOT used but specific audio treatment files have
[Treatment/TreatmentsService] audioAnnouncement(s):
[Treatment/TreatmentsService] https://10.48.93.126/media/en/TrtSelectCallReject.wav
[Treatment/TreatmentsService] https://10.48.93.126/media/en/silence10s.wav
[Treatment/TreatmentsService] https://10.48.93.126/media/en/TrtSelectCallReject.wav
```

نالع ليغشت متيس ه نأو (عونمم) اعدتسال لش ف ب بس ةفرعم كنكمي، مسقلا اذه نم
TrtSelectCallReject.wav.

ليلحتلا اذهل ينمزل عباطلاو ةيئاهنلا ةجيتنل ناريخألا نامسقل رهظي:

```
=====
===== TIMESTAMPS =====
=====
[Timestamps] Start time = 2023.01.27 10:31:29:425 CET
[Timestamps] End time   = 2023.01.27 10:31:29:466 CET

=====
===== RESULT: BLOCKED =====
=====
```

نيعم ريغ مقرب لاصتالا: 3 ويرانيسل

انعد. نيعم ريغ رخآ قحلم مادختساب نييلحمللا نيمدختسملا دحأ موقي، ويرانيسل اذه في
هنع ديزملا ةفرعمل ةملاكمل اذهل VTR جارخا ضرعن:

AS_CLI/ASDiagnostic/Diag> vtr userId ngnuserB1@mleus.lab 2014
VTR Result:

Using following parameters to run short form VTR command

VtrOriginationEvent
vtrKey 14
origUserId ngnuserB1@mleus.lab
origUserUid 110439218
requestURI equivalent 2014@10.48.93.126:5060
dialedDigits (initial) 2014
deviceEnpoint 5403362011@mleus.lab

رملأل نم تاملعمل المةمجرتبب AS ل موقت فيك ىرت نأ كنكمي VTR، جئاتن نم لوالأ مسقلا في
vtr SIP URLs: نيوانع ىلإ

- لصتمل: 5403362011@mleus.lab
- ةهوجل: 2014@10.48.93.126:5060

صاخلا ئشنملا تامولعم مسق نإف، لوالأ ويرانيسلأ في امك لصتملأ سفن امامت وه هنأل
تامولعم" مسق ىلإ لىلحتلا رمتسي وحوصولل هي طخت متي، كذل. امامت هسفن وه اذهب
لأ لصلأ لاصتال:

=====

===== ORIGINATING CALL INFO =====
=====

[Orig/CallServiceBus] CallId is callhalf-60487:0
[Orig/CallServiceBus] === Routing InvitationEvent on the Originating Call bus ===

[Orig/CallServiceBus] TranslationServiceOrigInstance has CONSUMED the event.
[Orig/CallServiceBus] CallId is callhalf-60487:0
[Orig/CallServiceBus] === Routing ReleaseWithCauseEvent on the Originating Call bus ===

[Orig/CallServiceBus] TranslationServiceOrigInstance has processed the event...continue
[Orig/CallServiceBus] CallTransferRecallServiceInstance has processed the event...continue
[Orig/CallServiceBus] CMServiceInstance has processed the event...continue
[Orig/CallServiceBus] GETSServiceInstance has processed the event...continue
[Orig/CallServiceBus] EnhancedCallLogsServiceInstance has processed the event...continue
[Orig/CallServiceBus] OCPOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallCenterAgentCallServiceInstance has processed the event...continue
[Orig/CallServiceBus] PTTOriginatorServiceInstance has processed the event...continue
[Orig/CallServiceBus] CallParkServiceInstance has processed the event...continue
[Orig/CallServiceBus] LegacyACBServiceInstance has processed the event...continue
[Orig/CallServiceBus] AutomaticCallbackServiceInstance has processed the event...continue

[Orig/CallServiceBus/TreatmentsServiceInstance] TreatmentsServiceInstance has processed the event...
[Orig/CallServiceBus/TreatmentsServiceInstance] Treatments Service would have started the announceme
[Orig/CallServiceBus/TreatmentsServiceInstance] Letting event continue to release test call resource

[Orig/CallServiceBus] CallWaitingFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFBusyFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFNoAnswerFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] VMServiceInstance has processed the event...continue
[Orig/CallServiceBus] CFNotReachableFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] DirectedCallPickupServiceInstance has processed the event...continue
[Orig/CallServiceBus] DPUBIServiceInstance has processed the event...continue

```
[Orig/CallServiceBus] AnswerTimerFACServiceInstance has processed the event...continue
[Orig/CallServiceBus] MusicOnHoldServiceInstance has processed the event...continue
[Orig/CallServiceBus] AoCServiceInstance has processed the event...continue
[Orig/CallServiceBus] EmergencyCallTimerServiceInstance has processed the event...continue
[Orig/ReleaseWithCauseHandler] Post Processing RWC for Call.
```

"Routing" ةرابع كانه ،الو ا. ام أطخ كانه نأ ةفرعم لعفلاب كنكمي ،مسقلا اذه نم
في "Routing InvitationEvent" ةرابع نم الدب "Originating Call Bus" في ReleaseWithCauseEvent
في "Originating Call Bus". كلد دعب TreatmentServiceInstance نايب دجوي ،كلذ دعب
في "ReleaseWithCauseHandler" ةلمجب عطقملا

```
=====
===== ORIGINATING TRANSLATION RESULT =====
=====
```

```
[Orig-Xlation/DialPlanPolicy] --Dial Plan Policy Information--
[Orig-Xlation/DialPlanPolicy] requiresAccessCodeForPublicCalls = false
[Orig-Xlation/DialPlanPolicy] allowE164PublicCalls = false
[Orig-Xlation/DialPlanPolicy] privateDigitMap =
[Orig-Xlation/DialPlanPolicy] publicDigitMap = ([2-9]11|[0-1][2-9]11|0[#T]|00|01[2
[Orig-Xlation/DialPlanPolicy] preferE164FormatForCallbackSvcs = false
```

```
[Orig-Xlation/NetworkUsagePolicy] Network Usage Policy is - do not force all calls to network -
[Orig-Xlation/NetworkServerINVITE] Sending INVITE event to network server for Translation Service Or
[Orig-Xlation/NetworkServerINVITE] Endpoint Id: callhalf-60487:0
udp 1128 SIP Bytes OUT to 10.48.93.128:5060
INVITE sip:2014@10.48.93.128;user=phone;transport=udp SIP/2.0
Via:SIP/2.0/UDP 10.48.93.126;branch=z9hG4bKBroadWorks.-iom24c-10.48.93.128V5060-0-960997887-1152157
From:"Marek Leus"
```

```
;tag=1152157837-1674811757564-
To:
```

```
Call-ID:BW1029175642701231892598132@10.48.93.126
CSeq:960997887 INVITE
Contact:
```

```
P-Asserted-Identity:"Marek Leus"
```

```
Privacy:none
X-BroadWorks-Correlation-Info:be8fde53-9ba5-4fc4-a788-ee426ed1fe90
Allow:ACK,BYE,CANCEL,INFO,INVITE,OPTIONS,PRACK,REFER,NOTIFY
Supported:
Max-Forwards:10
Content-Type:application/sdp
Content-Length:410
```

v=0
o=- 123 123 IN IP4 127.0.0.1
s=-
c=IN IP4 127.0.0.1
t=0 0
m=audio 16428 RTP/AVP 0 2 4 8 18 96 97 98 100 101
a=rtpmap:0 PCMU/8000
a=rtpmap:2 G726-32/8000
a=rtpmap:4 G723/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729a/8000
a=rtpmap:96 G726-40/8000
a=rtpmap:97 G726-24/8000
a=rtpmap:98 G726-16/8000
a=rtpmap:100 NSE/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=ptime:20
a=sendrecv

[Orig-Xlation/NS-RESPONSE] Got Network Server response for Translation Service Originating Side client
udp 394 SIP Bytes IN from 10.48.93.128:49109
SIP/2.0 404 Not found
Via:SIP/2.0/UDP 10.48.93.126;branch=z9hG4bKBroadWorks.-iom24c-10.48.93.128V5060-0-960997887-1152157
From:"Marek Leus"

;tag=1152157837-1674811757564-
To:

;tag=1006595920-1674811749882
Call-ID:BW1029175642701231892598132@10.48.93.126
CSeq:960997887 INVITE
Content-Length:0

[Orig-Xlation/TranslationManager]	Translation Client: Translation Service Originating Side call Id i
[Orig-Xlation/TranslationManager]	=== TranslationResult ===
[Orig-Xlation/TranslationManager]	callType Network
[Orig-Xlation/TranslationManager]	address 2014
[Orig-Xlation/TranslationManager]	addressType main
[Orig-Xlation/TranslationManager]	isServiceCode false
[Orig-Xlation/TranslationManager]	sc8Translated false
[Orig-Xlation/TranslationManager]	sc100Translated false
[Orig-Xlation/TranslationManager]	oacTranslated false
[Orig-Xlation/TranslationManager]	carrierPrefixTranslated false
[Orig-Xlation/TranslationManager]	intraSP false
[Orig-Xlation/TranslationManager]	alias false
[Orig-Xlation/TranslationManager]	preExtEmergencyRtgAK null
[Orig-Xlation/TranslationManager]	=== Carrier Info ===
[Orig-Xlation/TranslationManager]	;cse1=noind

نم. ءاعدتسالا حاجن مدع ببس ىلع ةقمعتم ةرظن ةئشانلا ةمچرتلا جئاتن مسق يطي
404 أطخلا ةباجتسا عچري هنكلو، NS مادتساب 2014 مقرر لح لواحي AS نأ جارخالا نم حضاولا
اهيلع روثعلا متي مل يتلا.

ءاهنإ تامولعم "مسق نإف، هب ةصاخلا ةهچولا ىلإ ءاعدتسالا عيسوت نكمي ال هنأل ارظن
ادج زجوم "ءاعدتسالا

```
=====
===== TERMINATING CALL INFO =====
=====
[Term] Terminating call processing information has not been populated
```

ةجلاعم ةيفيكلوچ تامولعم ىلع يوتحي "ةجلاعملا تامولعم" مسق دچوي، كلذ نم الدب
ةلشافلا ةملاكملا

```
=====
===== TREATMENT INFORMATION =====
=====
[Treatment/TreatmentsService] Treatment service processing RWC. Release Cause is USER_NOT_FOUND
[Treatment/TreatmentsService] defaultAnnouncement isTrtUnknownUser.wav
[Treatment/TreatmentsService] defaultTone is reorder-pcmu.wav

[Treatment/TreatmentsService] Treatment playing default announcement https://10.48.93.126/media/en/T
```

متيس هنأب غلبتو (USER_NOT_FOUND) ءاعدتسالا لشف ببس ماسقألا هذه حضوت
ىلإ اضيأ ريشت اهنأ امك. pcmu.wav-بببترت ةداعإ وأو TrtUnknownUser.wav نالعل ليغشت
نالعلاب مايقللا ىلإ ههچوتل طئاسولا مداخل عم راوخل ي ف همادختسا بجي يذلا قيرطلا
حيحصلا.

لليحتلا اذهل ينمزلا عباطلاو ةيئاهنلا ةچيئتلا ناربخألا نامسقل رهظي

```
=====
===== TIMESTAMPS =====
=====
[Timestamps] Start time = 2023.01.27 10:29:17:525 CET
[Timestamps] End time = 2023.01.27 10:29:17:669 CET
```

```
=====
===== RESULT: BLOCKED =====
=====
```


ةمچرتل هذه ل و ح

ةيلآل ا تاي ن ق ت ل ا ن م ة و م ج م ا د خ ت س ا ب د ن ت س م ل ا ا ذ ه Cisco ت م چ ر ت م ل ا ع ل ا ا ح ن ا ع م ج ي ف ن ي م د خ ت س م ل ل م ع د ي و ت ح م م ي د ق ت ل ة ي ر ش ب ل و ا م ك ة ق ي ق د ن و ك ت ن ل ة ي ل آ ة م چ ر ت ل ض ف ا ن ا ة ط ح ا ل م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب Cisco ي ل خ ت . ف ر ت ح م م چ ر ت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة م چ ر ت ل ا ع م ل ا ح ل ا و ه ي ل ا ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا م چ ر ت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا د ن ت س م ل ا