

排除VTR和VTRI的呼叫建立問題

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簡介

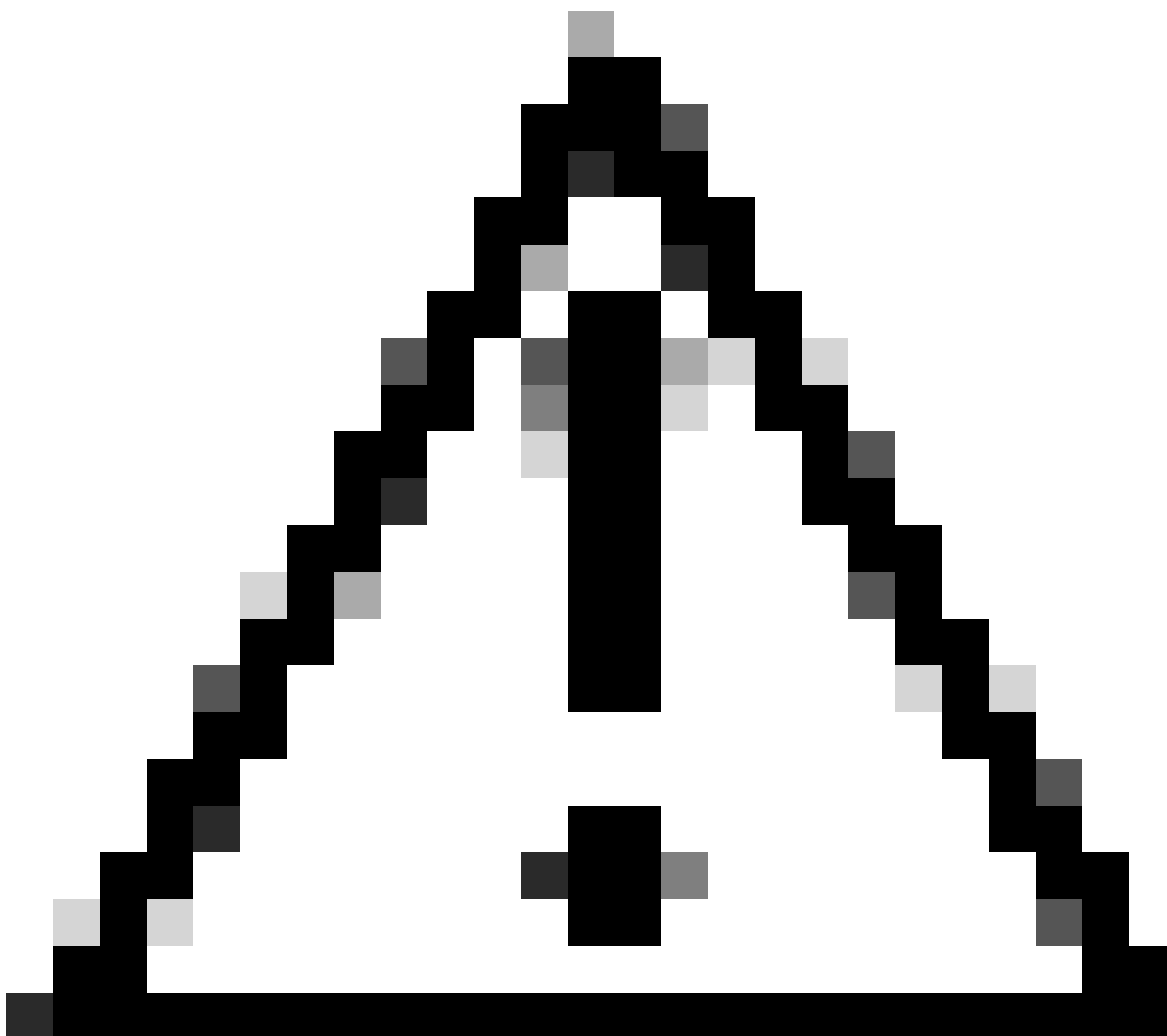
本文描述如何在應用伺服器(AS)中使用驗證轉換和路由(VTR)工具對常見呼叫設定問題進行故障排除。

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背景資訊

BroadWorks Application Server有兩個嵌入式工具，可用於解決呼叫設定問題：VTR和驗證轉換和路由邀請(VTRI)。這兩個工具的用途相同，不同之處在於輸入命令：

- VTR將呼叫者詳細資訊（如使用者ID或電話號碼）以及目標號碼作為輸入，
- VTRI將SIP INVITE消息作為輸入。



注意：VTR和VTRI命令也可在網路伺服器(NS)中使用，但輸出結構與AS不同。本文檔重點介紹AS VTR(I)，在使用NS VTR(I)時不能用作參考。

[Application Server VTR Administration](#) Guide中提供AS VTR的完整命令參考。

必要條件

需求

思科建議您瞭解以下內容：

- 作業階段啟始通訊協定(SIP)訊號傳送。
- 應用伺服器的呼叫處理機制，以及可用的服務及其配置。

採用元件

本文檔中的資訊基於BroadWorks AS版本R24。但是，其他軟體版本的行為是類似的。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

VTR(I)工具的法

VTR分析可以從命令列介面(CLI)和Web介面觸發。

從CLI運行VTR(I)工具

若要從Web GUI運行VTR，請使用以下步驟：

步驟1.使用您的bwadmin憑據登入BroadWorks CLI。

步驟2.啟動BroadWorks CLI並導航到AS_CLI/ASDiagnostic/Diag:

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

步驟3.若要使用VTRI，請在新行中運行vtri命令，後跟SIP INVITE和句點字元。舉例來說：

```
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: dTUVBWON9UjmftpGC0oJzhLfbaJBm11C
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
.
```

步驟4.若要使用VTR，請運行vtr命令，後跟呼叫者和目標的詳細資訊。舉例來說：

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

從Web GUI運行VTR(I)工具

若要從Web GUI運行VTR，請使用以下步驟：

步驟1.導覽至https://<AS_FQDN>/Login頁面，並登入AS Web介面。

步驟2.導覽至System > Utilities > Verify Translation and Routing。

步驟3.若要使用VTRI，請按一下SIP Message單選按鈕，並將SIP INVITE消息貼上到輸入欄位中。然後，按一下執行VTR請求連結：

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;port=branch=z9hG4bKPygINPyPUvoBT57ITOBPsgCIEqE5G
X1aj7
Max-Forwards: 70
From: "Marek Leus"
<sip:5403362011@mleus.lab>;tag=6fU.VILrWc6Wt3JU8/WKS.25ycoWEhpc
To: sip:2012@mleus.lab
Contact: "Marek Leus" <sip:5403362011@10.61.205.219:58300;ob>
Call-ID: dTUVBWON9UjmtfpGCCoJzhLfajBm11C

Execute VTR request.

VTR Result:

OK

步驟4.若要使用VTR，請按一下Parameters單選按鈕並填充所有必填欄位。然後點選執行VTR請求連結：

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.](#)

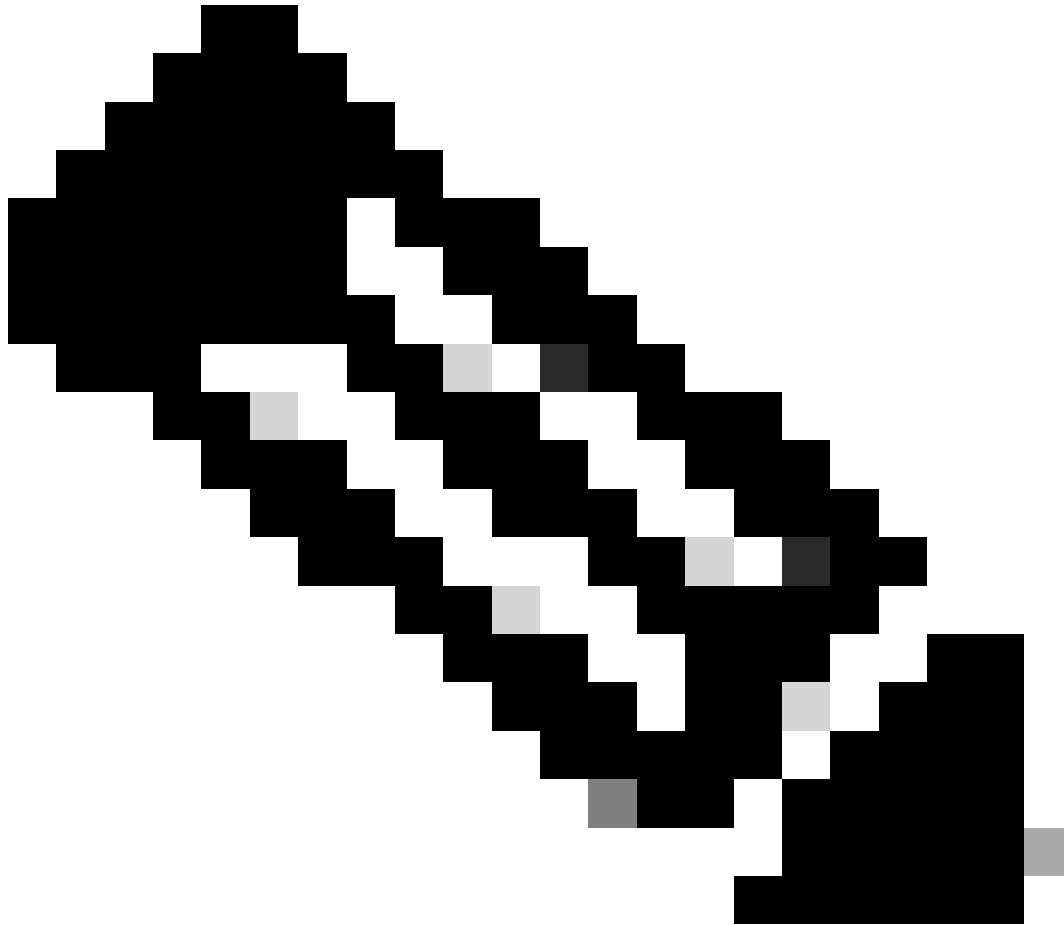
VTR Result:

OK

VTR(I)輸出細分

VTR和VTRI結果的格式類似。它由八個部分組成：

1. 引數或SIP INVITE(僅存在於VTR中；在VTRI中不需要，因為它適用於真正的SIP消息)。
2. 建立者資訊。
3. 始發呼叫資訊。
4. 原始轉換結果。
5. 正在終止呼叫資訊。
6. 治療資訊
7. 時間戳。
8. 結果。



附註：除非另有說明，否則本文檔中的所有VTR輸出均基於vtr userId <user_id> <destination_number>命令輸出。

引數或SIP邀請

VTR結果的第一部分是SIP INVITE，或用於模擬呼叫的引數。如果您明確提供SIP INVITE（換句話說，如果您使用VTRI），則此部分不可見。

當源設定為URL或線路/埠時，生成SIP INVITE。舉例來說：

```
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

如果來源設定為使用者ID或電話 (bwphone和pstnphone) , 則會顯示引數。 舉例來說 :

AS_CLI/ASDiagnostic/Diag> vtr userId nguserB1@mleus.lab 2012
VTR Result:

Using following parameters to run short form VTR command

VtrOriginationEvent
vtrKey 16
origUserId nguserB1@mleus.lab
origUserId 110439218

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

建立者資訊

本節顯示有關始發方（呼叫方）的資訊。如果呼叫者是本地BroadWorks使用者，則會顯示有關該使用者的詳細資訊。舉例來說：

```
=====
===== 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
```

始發呼叫資訊

在此部分中，按順序列出呼叫呼叫方端上的事件進展。如果呼叫方是Cisco BroadWorks使用者，則這是執行所分配服務的位置。舉例來說：

```
=====
===== 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.

```

原始轉換結果

本節提供有關從Cisco BroadWorks網路伺服器請求轉換的資訊。如果需要網路轉換，則顯示有關使用的撥號方案策略的資訊。它還顯示為此目的交換的SIP消息。舉例來說：

```

=====
=====  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

終止呼叫資訊

如果呼叫具有有效的目的地，則會顯示有關其身份和終止服務匯流排上的事件的事件的資訊。類似於始發呼叫資訊部分，這是執行目標使用者所分配服務的位置。它還顯示傳送到目的地的SIP INVITE。舉例來說：

```
=====
=====  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

治療資訊

此部分僅適用於未成功的呼叫。文中給出了呼叫失敗的詳細原因。還列出了如果呼叫因該原因而失敗，媒體伺服器播放的通告/音調。舉例來說：

```
=====
===== 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
```

時間戳

呼叫時間戳可用於將VTRI中的事件與XSLogs相關聯。

結果

測試呼叫的最終結果，可能的值為：

- 允許 — 呼叫可以成功擴展到遠端方。傳出INVITE顯示在「終止呼叫資訊」部分。
- 已阻止 — 由於某些策略或異常情況，呼叫設定被阻止。原因既可以位於起始端，也可以位於終止端（取決於原因）。
- 已重定向 — 已重定向呼叫，且無條件。重新導向目標會在報告中識別和顯示。
- 超時 — 由於某種原因，導致測試呼叫無法正確終止，並且已達到10秒的內部時間限制。可以利用手頭的資訊，但是沒有顯示最終結果。
- 媒體 — 媒體元件在內部啟動（通常為互動式語音響應[IVR]）以播放特定通知或收集數字。在此情況下，測試呼叫停止，但報告顯示截至此時的事件。

網路拓撲和呼叫流程

為簡單起見，本文檔中使用了一個基本呼叫方案：

- 軟體電話應用程式直接註冊到AS。

- 所有使用者都位於同一個組中。
- 既未使用呼叫前轉，也未使用重定向功能。

呼叫方案

本文檔介紹使用分機2011的使用者按順序撥號的三個場景：

1. 擴展2012，將其分配給已註冊裝置。
2. 分機2012，被分配給一個註冊裝置，但是選擇性呼叫接受服務被配置為拒絕來自2011的呼叫
如本螢幕截圖所示：



3. 副檔名2014，未分配給任何使用者。

案例 1: 呼叫成功

在這種情況下，一個本地使用者按分機撥打另一個本地使用者。讓我們瀏覽此呼叫的VTR輸出以瞭解更多相關資訊：

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

在VTR結果的第一部分中，可以看到AS如何將引數從vtr命令對映到SIP URL：

- 來電者：5403362011@mleus.lab
- 目標：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          = 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

```

然後，由於呼叫者是本地使用者，因此將列印有關使用者的所有詳細資訊。在本節中，您可以瞭解使用者的名字(Marek)和姓氏(Leus)，他們的分機號(2011)是什麼，全號(+15403362011)是什麼，以及他們屬於哪個企業/組(ngnentB1/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.

```

由於它是一個沒有啟用服務的簡單使用者，因此Originating Call Information部分中的資訊不多。AS會逐個檢查一個服務，並最終轉到VTR的下一部分。它還將此呼叫定義為組呼叫。如果要將此VTR分析與XSLogs相關聯，則可以從此部分提取呼叫半ID(callhalf-60455)，然後使用它在日誌檔案中查詢此呼叫。舉例來說：

```

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-604
    $ 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 |

```

下一節是源轉換結果：

```

=====
===== 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
```

從此部分，您可以瞭解為給定呼叫應用了什麼撥號計畫。對於此呼叫，輸出會通知它是組內的呼叫，並定向至使用者ngnuserB2@mleus.lab。下一節將介紹此使用者的詳細資訊：

```
=====
=====  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   = 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
```

通過此部分，您可以瞭解與之前呼叫者相同的呼叫目標詳細資訊：名字和姓氏(John Doe)、分機號(2012)和全號(+15403362012)，以及企業/集團(nentB1/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

```

在此部分中，還將檢查所有服務。只有一項服務分配給此使用者（選擇性呼叫接受），但唯一的條件集(Reject_2011)處於非活動狀態。因此，它不會被觸發，並且VTR分析將移到「終止呼叫資訊」部分的下一個階段，該階段顯示分析的最終結果。

```

[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] VAOSerivceInstance 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

在此部分中，您可以看到如果最終目的地是真正的呼叫，則將擴展到最終目的地的INVITE消息。還可以提取可用於在日誌檔案中跟蹤此呼叫的callhalf ID(callhalf-60459):

```
bwadmin@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 |
```

最後兩節顯示此分析的最終結果和時間戳：

```
=====
=====          TIMESTAMPS          =====
=====
[Timestamps]    Start time = 2023.01.27 10:28:38:819 CET
[Timestamps]    End time   = 2023.01.27 10:28:38:846 CET

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

案例 2: 呼叫被選擇性呼叫接受服務拒絕

在這種情況下，一個本地使用者再次按分機撥打另一個本地使用者；但是，這次將選擇性呼叫接受配置為拒絕此呼叫。讓我們瀏覽此呼叫的VTR輸出以瞭解更多相關資訊：

```
AS_CLI/ASDiagnostic/Diag> vtr userId ngnuserB1@mleus.lab 2012
VTR Result:
-----
Using following parameters to run short form VTR command
-----
VtrOriginationEvent
vtrKey          16
origUserId      ngnuserB1@mleus.lab
origUserId      110439218
requestURI equivalent 2012@10.48.93.126:5060
dialedDigits (initial) 2012
deviceEndpoint  5403362011@mleus.lab
```

在VTR結果的第一部分，可以看到AS如何將vtr命令的引數對映到SIP URL：

- 來電者：5403362011@mleus.lab
- 目標：2012@10.48.93.126:5060

由於它與第一個場景中的呼叫者完全相同，因此此場景的「建立者資訊」部分也完全相同。因此，為了清楚起始Call Information部分會跳過此部分，並繼續對其進行分析：

```
=====
=====          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...continue
 [Orig/CallServiceBus/TreatmentsServiceInstance] Treatments Service would have started the announcement
 [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.
```

此部分顯示AS知道目標號碼，並將呼叫定義為組呼叫。但是，您還可以確定是否有問題。首先，涉及「始發呼叫匯流排上的Routing ReleaseWithCauseEvent」語句和TreatmentServiceInstance。同樣，此部分以ReleaseWithCauseHandler結尾。

下一節是Originating Translation Result，它與場景1中的部分完全相同，因為呼叫被定向到同一使用者。因此，為了清楚起見，省略了它。差異顯示在「終止呼叫資訊」部分：

```
=====
=====  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@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-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/SCAServiceInstance] active: true
[Term/CallServiceBus/SCAServiceInstance] blacklistFlag: true
[Term/CallServiceBus/SCAServiceInstance] ScheduleCriteria
[Term/CallServiceBus/SCAServiceInstance] - No Schedule associated
[Term/CallServiceBus/SCAServiceInstance] - inScheduleRightNow: true
[Term/CallServiceBus/SCAServiceInstance] CallingPartyAddressCriteria
[Term/CallServiceBus/SCAServiceInstance] +15403362011
[Term/CallServiceBus/SCAServiceInstance] CallToCriteria
[Term/CallServiceBus/SCAServiceInstance] CallTo matches ANY

[Term/CallServiceBus] SCAServiceInstance 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] DPUBISServiceInstance has processed the event...continue
[Term/CallServiceBus] RedirectionServiceInstance has processed the event...continue
[Term/CallServiceBus] MusicOnHoldServiceInstance has processed the event...continue

```

您可以看到，這一次Reject_2011標準集處於活動狀態。因此，選擇性呼叫接受服務被觸發。因此，在終止呼叫匯流排上引發ReleaseWithCauseEvent。AS檢查其餘的服務並轉到Treatment Information部分：

```

=====
=====  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

```

通過本節內容，您可以瞭解呼叫失敗（已禁止）的原因以及要播放TrtSelectCallReject.wav通告。

最後兩節顯示此分析的最終結果和時間戳：


```

[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.

```

從本節中，您已經可以知道出現了問題。首先，有一個「始發呼叫匯流排上的路由發佈 WithCauseEvent」語句，而不是「始發呼叫匯流排上的路由邀請事件」語句。然後，會涉及 TreatmentServiceInstance語句。最後，該節以ReleaseWithCauseHandler語句結尾。

```

=====
=====  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

```

「始發轉換結果」部分可以深入瞭解呼叫失敗的原因。從輸出中可明顯看出，AS嘗試使用NS解析2014編號，但它返回404 Not Found錯誤響應。

由於呼叫無法擴展至其目標，因此「終止呼叫資訊」部分非常簡短：

```

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

```

相反，會顯示「處理資訊」部分，其中包含有關如何處理失敗呼叫的資訊：

```

=====
=====  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

```

本節提供呼叫失敗的原因(USER_NOT_FOUND)，並通知要播放TrtUnknownUser.wav通知和/或重新排序 — pcmu.wav音。它還指明了與媒體伺服器對話時用於指示其播放正確公告的路徑。

最後兩節顯示此分析的最終結果和時間戳：

```
=====
=====      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      =====
=====
```

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。