

VTRおよびVTRIでのコールセットアップ問題の トラブルシューティング

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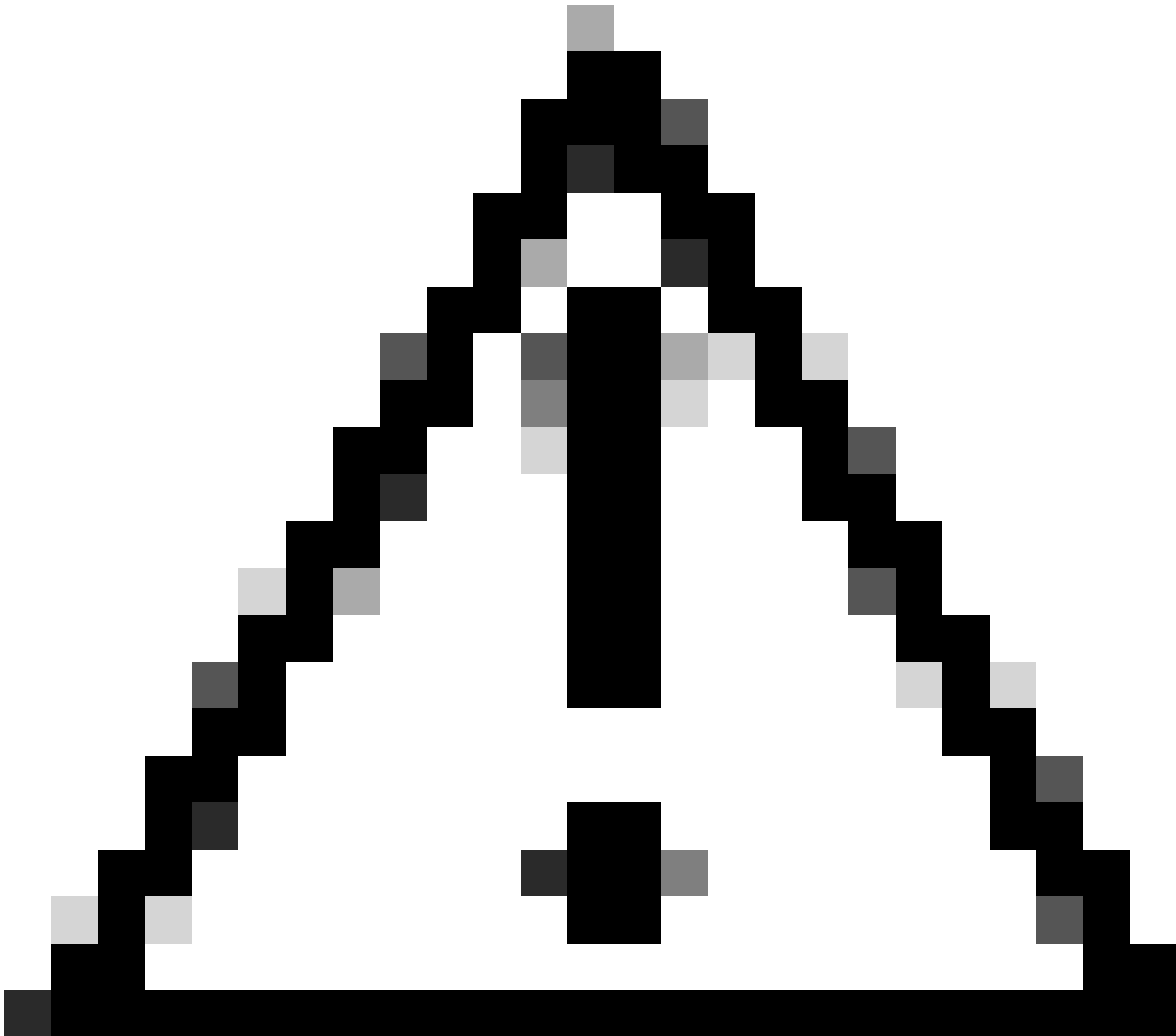
はじめに

このドキュメントでは、アプリケーションサーバ(AS)のVerify Translation and Routing(VTR)ツールを使用して、一般的なコールセットアップの問題をトラブルシューティングする方法について説明します。

背景説明

BroadWorks Application Serverには、コールセットアップの問題のトラブルシューティングに使用できる組み込みツールとして、VTRとVerify Translation and Routing INVITE(VTRI)の2つが用意されています。これら2つのツールの目的は同じで、違いはコマンド入力にあります。

- VTRは、発信者情報 (ユーザIDや電話番号など) と宛先番号を入力として受け取ります。
 - VTRIはSIP INVITEメッセージを入力として受け取ります。
-



注意:VTRおよびVTRIコマンドはネットワークサーバ(NS)でも使用できますが、出力構造はASとは異なります。このドキュメントでは、AS VTR(I)に焦点を当てており、NS VTR(I)での作業中はリファレンスとして使用できません。

AS VTRの完全なコマンドリファレンスについては、『[Application Server VTR Administration Guide](#)』を参照してください。

前提条件

要件

次の項目に関する知識があることが推奨されます。

- Session Initiation Protocol(SIP)シグナリング
- アプリケーションサーバのコール処理メカニズム。使用可能なサービスとその設定とともに提供されます。

使用するコンポーネント

このドキュメントの情報は、BroadWorks ASバージョンR24に基づくものです。ただし、他のソフトウェアバージョンの動作も同様です。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、クリアな（デフォルト）設定で作業を開始しています。本稼働中のネットワークでは、各コマンドによって起こる可能性がある影響を十分確認してください。

VTR(I)ツールの使用

VTR分析は、コマンドラインインターフェイス(CLI)とWebインターフェイスの両方からトリガーできます。

CLIからのVTR(I)ツールの実行

Web GUIからVTRを実行するには、次の手順を使用します。

ステップ 1 : bwadminクレデンシャルを使用してBroadWorks CLIにログインします。

ステップ 2 : BroadWorks CLIを起動し、AS_CLI/ASDiagnostic/Diag:

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

ステップ 3 : VTRIを使用するには、新しい行で、vtriコマンドに続けてSIP INVITEとピリオドを実行します。例 :

```
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: dTUVBWON9UjmfGCOoJzhLfbajBm11C
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
.

ステップ 4 : VTRを使用するには、発信者と宛先の詳細を指定してvtrコマンドを実行します。例
:

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

Web GUIからのVTR(I)ツールの実行

Web GUIからVTRを実行するには、次の手順を使用します。

ステップ 1 : https://<AS_FQDN>/Loginページに移動し、AS Webインターフェイスにログインします。

ステップ 2 : System > Utilities > Verify Translation and Routingの順に選択します。

ステップ 3 : VTRIを使用するために、SIP Messageオプションボタンをクリックし、SIP INVITEメッセージを入力フィールドに貼り付けます。次に、Execute VTR requestリンクをクリックします。

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

ステップ 4 : VTRを使用するには、Parametersオプションボタンをクリックして、すべての必須フィールドに入力します。次に、Execute VTR requestリンクをクリックします。

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: User Id ▾

* Origination: ngnuserB1@mleus.lab

* Destination: 2012

Contact:

Diversion:

[Execute VTR request.](#)

VTR Result:

OK

VTR(I)出力ブレイクダウン

VTRおよびVTRIの結果の形式は同様です。8つのセクションで構成されています。

1. パラメータまたはSIP INVITE (VTRにのみ存在。実際のSIPメッセージで動作するため、VTRIでは不要)
2. 発信者情報。
3. 発信情報。
4. 変換結果を生成します。
5. コール情報を終了しています。
6. 治療情報
7. タイムスタンプ。
8. 結果。



注：このドキュメント内のVTR出力はすべて、特に記載がない限り、vtr userId <user_id> <destination_number>コマンドの出力に基づいています。

パラメータまたはSIP Invite

VTR結果の最初の部分はSIP INVITE、つまりコールのシミュレーションに使用されるパラメータです。このセクションは、SIP INVITEを明示的に指定した場合（つまり、VTRIを使用した場合）は表示されません。

発信元がURLまたは回線/ポートに設定されると、SIP INVITEが生成されます。例：

```
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
```

発信元がユーザIDまたは電話 (bwphoneとpstnphoneの両方) に設定されている場合、パラメータが表示されます。 例 :

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

発信者情報

このセクションには、発信側（発信者）に関する情報が表示されます。発信者がローカル BroadWorks ユーザの場合は、ユーザに関する詳細情報が表示されます。例：

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

発信側コール情報

この項では、コールの発信者側でのイベントの推移を順にリストします。発信者が Cisco BroadWorks ユーザの場合、この場所で割り当てられたサービスが実行されます。例：

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

```

変換結果の生成

このセクションでは、Cisco BroadWorks Network Serverから要求される変換に関する情報を提供します。ネットワーク変換が必要な場合は、使用されているダイヤルプランポリシーに関する情報が表示されます。また、この目的のために交換されたSIPメッセージも示します。例：

```

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

着信呼の情報

コールに有効な宛先がある場合、そのIDと着信側サービスバス上のイベントに関する情報が表示されます。発信呼情報セクションと同様に、宛先ユーザに割り当てられたサービスを実行する場所です。また、宛先に送信されるSIP INVITEも表示されます。例：

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

治療情報

このセクションは、失敗したコールに対してのみ表示されます。コール障害の詳細な理由を示します。また、その理由でコールが失敗した場合に、メディアサーバで再生されるアナウンスまたはトーンもリストされます。例：

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

タイムスタンプ

コールタイムスタンプを使用して、VTRIのイベントをXSLogsと関連付けることができます。

結果

テストコールの最終結果。可能な値は次のとおりです。

- Allowed：コールをリモートパーティに正常に送達できます。発信INVITEは、着信者情報セクションに表示されます。
- Blocked：何らかのポリシーまたは異常な状態が原因で、コールセットアップがブロックされました。この理由は、発信側でも終端側でもかまいません（理由によって異なります）。
- Redirected：コールは条件なしでリダイレクトされました。リダイレクト先が特定され、レポートに表示されます。
- タイムアウト：何らかの理由でテストコールが正常に終了せず、内部制限時間である10秒に達しました。手元の情報を使用できますが、最終結果は表示されません。
- メディア：メディアコンポーネントは、特定のアナウンスの再生またはディジットの収集のために内部で開始されました(通常は自動音声応答(IVR))。この場合、テストコールは停止さ

れますが、レポートにはこの時点までのイベントが表示されます。

ネットワークポロジとコールフロー

わかりやすくするために、このドキュメントでは基本的なコールシナリオを使用します。

- ・ ソフトフォンアプリケーションは、ASに直接登録されます。
- ・ すべてのユーザが同じグループに属しています。
- ・ コール転送もリダイレクトも使用されません。

コール シナリオ

このドキュメントでは、内線番号2011のユーザが順番にダイヤルする3つのシナリオについて説明します。

1. 内線番号2012。登録済みデバイスに割り当てられます。
2. 内線2012：登録済みデバイスに割り当てられるが、選択的コール受け入れサービスは2011からのコールを拒否するように設定されている 次のスクリーンキャプチャに示すように、

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. 内線番号2014。どのユーザにも割り当てられていません。

シナリオ1：成功したコール

このシナリオでは、あるローカルユーザが別のローカルユーザに内線番号でダイヤルします。このコールに関する詳細を調べるために、このコールのVTR出力を確認してみましょう。

```
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
```

VTR結果の最初のセクションでは、ASがパラメータをvtrコマンドからSIP URLにどのようにマッピングするかを確認できます。

- 発信者 : 5403362011@mleus.lab
- 宛先 : 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 = ngntentB1
[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
```

次に、発信者がローカルであるため、ユーザに関するすべての詳細が印刷されます。このセクションから、ユーザの最初(Marek)と最後(Leus)の名前、ユーザの内線番号(2011)、完全な番号(+15403362011)、およびユーザが属するエンタープライズ/グループ(ngntentB1/ngngroupB1)を確認できます。

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

```

サービスが有効になっていない単純なユーザであるため、「発信情報」セクションの情報は多くありません。ASは次から次へとサービスをチェックし、最終的にはVTRの次のセクションに進みます。また、このコールをグループコールとして定義します。このVTR分析をXSLogsと関連付ける場合は、このセクションからcallhalf ID(callhalf-60455)を抽出し、それを使用してログファイルでこのコールを検索できます。例：

```

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 | callhalf-60455
2023.01.27 10:28:38:821 CET | Info | CallP | Call Half Input Adapter 5 | 3104780 | Call Manager | callhalf-60455

```

次のセクションは、発信側の変換結果です。

```

=====
===== 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[2-9]11)

```

```
[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
```

このセクションでは、特定のコールにどのダイヤルプランが適用されるかを確認できます。このコールに関しては、出力はグループ内のコールであることを示し、ユーザ ngnuserB2@mleus.labに転送されます。次の項では、このユーザの詳細について説明します。

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

このパートでは、発信者のコールターゲットについて、前と同じ詳細(名と姓(John Doe)、内線番

号(2012)、および完全な番号(+15403362012))と、エンタープライズ/グループ (ngnntB1/ngngroupB1)を学習します。

```
[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
```

このセクションの以降の部分では、すべてのサービスがチェックされます。このユーザに割り当てられているサービスは1つだけですが(Selective Call Acceptance)、基準セット(Reject_2011)だけが非アクティブになっています。そのため、コールはトリガーされず、VTR分析は終了コール情報セクションの次の段階に進み、分析の最終結果が表示されます。

```
[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

このセクションには、実際のコールの場合に最終宛先まで拡張されるINVITEメッセージが表示されます。また、ログファイルでこのコールをトレースするために使用できるcallhalf ID(callhalf-60459)を抽出することもできます。

```
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 |
```

最後の2つのセクションには、この分析の最終結果とタイムスタンプが表示されます。

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

シナリオ2：選択的コール受け入れサービスによって拒否されたコール

このシナリオでは、1人のローカルユーザが別のローカルユーザの内線番号を使用して再度ダイヤルします。ただし、今回は、このコールを拒否するように選択的コール受け入れが設定されています。このコールに関する詳細を調べるために、このコールのVTR出力を確認してみましょう。

```
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

IVTR結果の最初のセクションでは、ASがパラメータをvtrコマンドからSIP URLにどのようにマッピングするかを確認できます。

- 発信者 : 5403362011@mleus.lab
- 宛先 : 2012@10.48.93.126:5060

最初のシナリオとまったく同じ発信者であるため、このシナリオの発信者情報セクションもまったく同じです。したがって、わかりやすくするために省略し、次の「発信情報」の項の分析を続けます。

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

```

このセクションでは、宛先番号がASに認識されており、コールをグループコールとして定義していることを示しています。ただし、何らかの問題が発生しているかどうかを判断することもできます。まず、「Routing ReleaseWithCauseEvent on the Originating Call bus」というステートメントがあり、TreatmentServiceInstanceが含まれています。同様に、セクションはReleaseWithCauseHandlerで終了します。

次のセクションはOriginating Translation Resultです。コールが同じユーザに送信されるため、これはシナリオ1のセクションと同じです。したがって、分かりやすくするために省略します。この違いは、着信側コール情報セクションに表示されます。

```

=====
===== 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      = 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] 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
```

今回は、Reject_2011基準セットがアクティブであることが確認できます。その結果、Selective Call Acceptanceサービスがトリガーされます。その結果、着信側コールバスで ReleaseWithCauseEventが発生します。ASは残りのサービスをチェックし、Treatment Informationセクションに移動します。

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

このセクションから、コール失敗の理由(FORBIDDEN)とTrtSelectCallReject.wavアナウンスの再生について学習できます。

最後の2つのセクションには、この分析の最終結果とタイムスタンプが表示されます。

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

シナリオ3：未割り当て番号へのコール

このシナリオでは、1人のローカルユーザが、割り当てられていない別の内線にダイヤルします。このコールに関する詳細を調べるために、このコールのVTR出力を確認してみましょう。

```
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
deviceEndpoint 5403362011@mleus.lab

VTR結果の最初のセクションでは、ASがパラメータをvtrコマンドからSIP URLにどのようにマッピングするかを確認できます。

- 発信者 : 5403362011@mleus.lab
- 宛先 : 2014@10.48.93.126:5060

最初のシナリオとまったく同じ発信者であるため、このシナリオの発信者情報セクションもまったく同じです。したがって、わかりやすくするために省略し、次の「発信情報」の項の分析を続けます。

=====

===== 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] DPUBISServiceInstance 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.
```

このセクションから、何か問題があることがすでにわかります。まず、「発信側コールバスのRouting InvitationEvent」ステートメントの代わりに、「発信側コールバスのRouting ReleaseWithCauseEvent」ステートメントがあります。その後、TreatmentServiceInstanceステートメントが含まれます。最後に、セクションはReleaseWithCauseHandlerステートメントで終了します。

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

Originating Translation Resultセクションには、コールが失敗した原因に関する情報が表示されます。ASがNSで2014番号を解決しようとしていることは出力から明らかですが、404 Not Foundエラー応答を返します。

コールを宛先まで延長できないため、着信側情報セクションは非常に短くなります。

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

代わりに、失敗したコールの処理方法に関する情報を含む「処理情報」セクションがあります。

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

このセクションでは、コール失敗の理由(USER_NOT_FOUND)を示し、TrtUnknownUser.wavアナウンスまたはreorder-pcmu.wavトーンを再生するように通知します。また、適切なアナウンスを再生するように指示するために、メディアサーバとの対話で使用するパスも示します。

最後の2つのセクションには、この分析の最終結果とタイムスタンプが表示されます。

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

翻訳について

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