

使用MRCPv1 ASR/TTS的IOS語音XML網關到CVP呼叫流

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[慣例](#)

[設定](#)

[網路圖表](#)

[組態](#)

[呼叫流示例](#)

[驗證](#)

[疑難排解](#)

[Debug指令](#)

[調試輸出](#)

[相關資訊](#)

簡介

語音可擴展標籤語言(VXML)是由全球資訊網聯盟(W3C)定義的標準。VXML旨在建立音訊對話，提供合成語音、口語識別、DTMF數字識別和口語錄音。VXML伺服器 and 客戶端使用公認的HTTP協定交換VXML文檔和頁面。

Cisco Voice Portal(CVP)提供可通過電話訪問的智慧互動式語音響應(IVR)應用。CVP部署分為三種型別：

- 獨立服務
- CVP通話控制
- 呼叫隊列和轉接

合成語音、口語識別或DTMF數字功能由文本到語音轉換(TTS)和自動語音識別(ASR)伺服器提供。Cisco IOS® VXML網關使用媒體資源控制協定(MRCP)與TTS和ASR伺服器通訊。MRCP(RFC 4463)有兩個版本，即MRCPv1(MRCP over RTSP)和MRCPv2(MRCP over SIP)。

本文檔介紹使用MRCPv1 TTS或ASR伺服器的獨立服務部署中Cisco IOS語音XML網關到CVP呼叫的呼叫流程。在CVP VXML伺服器上部署了一個示例藥房應用程式。

必要條件

需求

本文件沒有特定需求。

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- IOS VXML網關：Cisco AS5400XM，IOS 12.4(11)T2
- VXML伺服器：CVP 4.0
- ASR/TTS伺服器：Nuance ASR v8.5和TTS v4.0.6

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。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

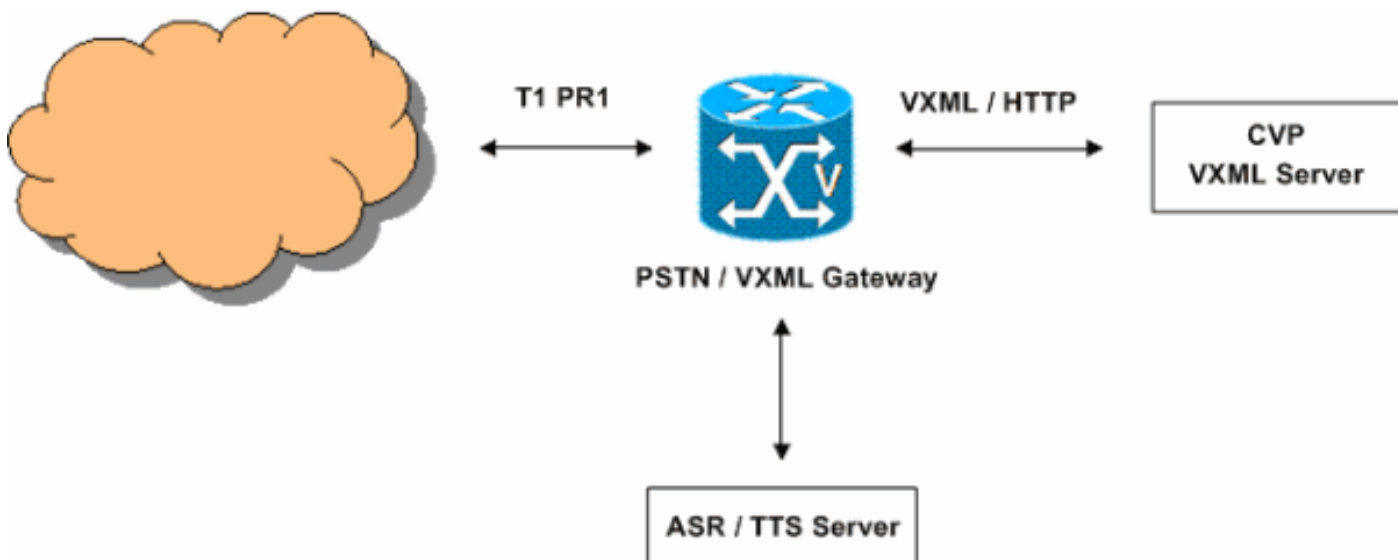
設定

本節提供用於設定本文件中所述功能的資訊。

註：使用[Command Lookup Tool](#)(僅限註冊客戶)查詢有關本文檔中使用的命令的更多資訊。

網路圖表

本檔案會使用以下網路設定：



組態

本檔案會使用以下設定：

```
VXML網關配置
```

```
!--- Define Hostname to IP address mapping for ASR and
```

```

TTS servers. ip host asr-en-us 10.86.177.39 ip host tts-
en-us 10.86.177.39 !--- Define the amount of maximum
memory to use for downloaded prompts. ivr prompt memory
15000 !--- Define the RTSP URI of ASR and TTS Server.
ivr asr-server rtsp://10.86.177.39/recognizer ivr tts-
server rtsp://10.86.177.39/synthesizer !--- Configure an
application service for CVP VXML
CVPSelfServiceBootstrap.vxml. application service
CVPSelfService flash:CVPSelfServiceBootstrap.vxml
paramspace english language en paramspace english index
0 paramspace english location flash: paramspace english
prefix en !--- Configure an application service for CVP
VXML CVPSelfService.tcl Script. !--- CVPSelfService-app
parameter specifies the name of the VXML Application. !-
-- CVPPPrimary parameter specifies the IP address of the
VXML server. service Pharmacy flash:CVPSelfService.tcl
paramspace english index 0 paramspace english language
en paramspace english location flash: param
CVPSelfService-port 7000 param CVPSelfService-app
GoodPrescriptionRefillApp7 paramspace english prefix en
param CVPPPrimaryVXMLServer 172.18.110.75 !--- Specifies
the Gateway's RTP stream to the ASR or TTS to go around
the !--- Content Service Switch instead of through the
CSS. mrpc client rtpsetup enable !--- Specify the
maximum memory size for the HTTP Client Cache. http
client cache memory pool 15000 !--- Specify the maximum
number of file that can be stored in the HTTP Client
Cache. http client cache memory file 500 !--- Disable
Persistent HTTP Connections. no http client connection
persistent !--- Configure the T1 PRI. controller T1 3/0
framing esf linecode b8zs pri-group timeslots 1-24 !---
Configure the ISDN switch type and incoming-voice under
the D-channel interface. interface Serial3/0:23 no ip
address encapsulation hdlc isdn switch-type primary-net5
isdn incoming-voice modem no cdp enable !--- Configure a
POTS dial-peer that will be used as the inbound dial-
peer for calls coming !--- in across the T1 PRI line.
The "pharmacy" service is applied under this dial-peer.
dial-peer voice 1 pots service pharmacy destination-
pattern 5555 direct-inward-dial port 3/0:D forward-
digits all

```

呼叫流示例

本節介紹此配置示例產生的呼叫流。

1. ISDN呼叫通過T1 PRI 3/0到達PSTN/VXML網關。
2. IOS網關將POTS撥號對等體1匹配為此呼叫的入站撥號對等體。
3. IOS網關將呼叫控制交給與撥號對等體1關聯的藥房服務。
4. 與藥房服務關聯的CVP VXML/TCL指令碼向VXML伺服器傳送HTTP GET請求。
5. VXML伺服器返回200 OK響應。此響應包含VXML文檔或頁面。
6. IOS網關執行VXML文檔。
7. 如果VXML文檔指定了音訊提示的URL，IOS網關將下載音訊檔案並播放提示。
8. 如果VXML文檔指定了音訊提示的文本，則IOS網關會與
rtsp://10.86.177.39/synthesizer (TTS伺服器) 建立RTSP會話。建立RTSP會話後，網關和
TTS伺服器使用RTSP ANNOUNCE請求交換MRCP消息，例如SPEAK、SPEAK-
COMPLETE。TTS伺服器將G.711ulaw RTP音訊流傳送到網關在RTSP SETUP請求的「傳輸
」標頭中提供的IP地址和UDP埠號。

9. 如果VXML文檔指定網關識別DTMF數字和口語，則IOS網關會與 rtsp://10.86.177.39/recognizer (ASR伺服器) 建立RTSP會話。在RTSP會話建立後，網關和ASR伺服器使用RTSP ANNOUNCE請求交換MRCP消息，例如DEFINE GRAMMAR、COMPLETE、RECOGNIZE、RECOGNITION-COMPLETE。IOS VXML網關將G.711ulaw RTP音訊流傳送到RTSP 200 OK響應的SDP中由ASR提供的IP地址和UDP埠號。IOS VXML網關將PSTN使用者輸入的數字作為RTP-NTE事件傳送到ASR伺服器。
10. 執行VXML文檔後，網關將傳送HTTP POST請求 (包含一組引數)，如VXML文檔或頁面的 <submit>標籤中所指定。
11. 對於伺服器傳送的每個VXML文檔，都會執行步驟6 - 10。
12. 當VXML應用程式完成向呼叫方提供的服務時，它會傳送一個VXML文檔，該文檔在<form>元素中僅包含<exit/>標籤。
13. IOS網關斷開與TTS和ASR伺服器建立的MRCPv1會話的連線。
14. IOS網關會斷開ISDN端的呼叫。

驗證

使用本節內容，確認您的組態是否正常運作。

[輸出直譯器工具](#)(僅供已註冊客戶使用)(OIT)支援某些show命令。使用OIT檢視show命令輸出的分析

。

- **show call active voice brief**

```
11E7 : 63 4728960ms.1 +0 pid:1 Answer 5555 active
dur 00:00:31 tx:920/179920 rx:880/211200
Tele 3/0:D (63) [3/0.1] tx:4600/4600/0ms None noise:-80 acom:51 i/0:-79/-27 dBm
```

```
Telephony call-legs: 1
SIP call-legs: 0
H323 call-legs: 0
Call agent controlled call-legs: 0
SCCP call-legs: 0
Multicast call-legs: 0
Total call-legs: 1
```

- **show mrcp client session active detail**

```
No Of Active MRCP Sessions: 1

                Call-ID: 0x3F same: 1
                Resource Type: Synthesizer                URL: rtsp://10.86.177.39/synthesizer
Method In Progress: SPEAK                               State: SPEAKING

                Resource Type: Recognizer                URL: rtsp://10.86.177.39/recognizer
Method In Progress: RECOGNIZE                          State: RECOGNIZING
#####
```

- **show voip rtp connections**

```
VoIP RTP active connections :
No. CallId      dstCallId LocalRTP RmtRTP LocalIP      RemoteIP
1   66          63       17704   1224   172.18.110.77 10.86.177.39
```

- **show http client cache**

```
HTTP Client cached information
=====
Maximum memory pool allowed for HTTP Client caching = 15000 K-bytes
Maximum file size allowed for caching = 500 K-bytes
Total memory used up for Cache = 410 Bytes
Message response timeout = 10 secs
Total cached entries      = 1
```

Total non-cached entries = 0

Cached entries
=====

```
entry 114, 1 entries
Ref  FreshTime  Age          Size          context
---  -
1    119524      31          1271          0
url: http://172.18.110.75/Welcome-1.wav
```

疑難排解

使用本節內容，對組態進行疑難排解。

Debug指令

配置IOS網關以在其日誌緩衝區中記錄調試並禁用日誌控制檯。

附註：使用 `debug` 指令之前，請先參閱[有關 Debug 指令的重要資訊](#)。

以下命令用於配置網關，以便將調試儲存在網關的日誌緩衝區中：

1. `service timestamps debug datetime msec`
2. 服務序列
3. 無日誌控制檯
4. `logging buffered 5000000 debug`
5. 清除日誌

- `debug isdn q931`
- `debug voip ccapi inout`
- `debug voip application vxml default`
- `debug voip application vxml dump`
- `debug rtsp all`
- `debug mrp all`
- `debug http client all`
- `debug voip rtp session nte named-event`

調試輸出

本節提供此呼叫流程示例的調試輸出：

1. [網關接收來自PSTN的來電](#)
2. [網關匹配入站撥號對等體1](#)
3. [呼叫被轉到藥房服務](#)
4. [呼叫在ISDN端連線](#)
5. [網關開始執行CVPServiceBootstrap.vxml VoiceXML指令碼](#)
6. [網關向VXML伺服器傳送HTTP GET請求](#)
7. [網關收到來自VXML伺服器的200 OK消息](#)
8. [網關向媒體伺服器傳送HTTP GET請求以下載Welcome-1.wav檔案](#)

9. [網關從媒體伺服器收到200 OK並接收HTTP消息正文中Welcome-1.wav的內容](#)
10. [網關按照VXML文檔的「提交」選項中的定義向伺服器傳送HTTP POST請求\(1\)](#)
11. [網關收到其HTTP POST請求的200 OK](#)
12. [網關按照VXML文檔的「提交」選項中的定義傳送HTTP POST請求\(2\)](#)
13. [網關收到200 OK響應HTTP POST請求](#)
14. [網關建立用於DTMF/語音識別的語法](#)
15. [網關向ASR伺服器傳送RTSP SETUP請求](#)
16. [網關收到來自ASR伺服器的200 OK響應](#)
17. [網關將MRCP「DEFINE-GRAMMAR」請求傳送到嵌入在RTSP ANNOUNCE請求中的ASR伺服器 \(此處只顯示一個請求\)](#)
18. [網關收到其DEFINE-GRAMMAR請求的200 COMPLETE響應](#)
19. [網關向ASR伺服器傳送MRCP「識別」請求](#)
20. [ASR伺服器向識別請求傳送正在進行的響應](#)
21. [Gateway完成Welcome-1.wav媒體檔案的下載，向呼叫者播放提示並將其儲存在快取中](#)
22. [網關向TTS伺服器傳送RTSP SETUP請求](#)
23. [網關收到來自TTS伺服器的200 OK響應，以響應RTSP設定請求](#)
24. [網關向TTS伺服器傳送MRCP「SPEAK」請求，播放「早安，感謝您致電Audium藥店」提示](#)
25. [TTS伺服器傳送SPEAK請求的「正在進行」響應](#)
26. [播放提示後，TTS伺服器向網關傳送MRCP「SPEAK-COMPLETE」響應](#)
27. [ASR伺服器檢測語音啟動，並使用MRCP「START-OF-SPEECH」響應通知網關](#)
28. [網關向MRCP通告請求傳送200 OK響應](#)
29. [ASR伺服器識別單詞「Refills」，並向網關傳送MRCP「RECOGNITION-COMPLETE」消息](#)
30. [在從ASR伺服器接收到成功的識別通知後，VXML網關傳送在VXML文檔的SUBMIT標籤中指定的一個HTTP POST請求\(2\)](#)
31. [VXML伺服器傳送VXML頁面，用於收集處方編號、取件時間並通知呼叫者處方已準備好取件。網關通過與TTS和ASR伺服器互動來執行這些頁面 \(未顯示調試輸出\)。](#)
32. [VXML伺服器傳送的最終VXML文檔僅包含表單中的退出標籤](#)
33. [網關終止VXML應用程式](#)
34. [網關在ISDN端斷開呼叫](#)
35. [網關斷開與ASR伺服器建立的RTSP會話的連線](#)
36. [網關斷開與TTS伺服器建立的RTSP會話的連線](#)

來自PSTN的來電

```
*Feb 4 03:24:54.111: ISDN Se3/0:23 Q931: RX <- SETUP pd = 8 callref = 0x0099
  Bearer Capability i = 0x8090A2
    Standard = CCITT
    Transfer Capability = Speech
    Transfer Mode = Circuit
    Transfer Rate = 64 kbit/s
  Channel ID i = 0xA98381
    Exclusive, Channel 1
  Called Party Number i = 0x81, '5555'
  Plan:ISDN, Type:Unknown
*Feb 4 03:24:54.115: //-1/972590A48011/CCAPI/cc_api_display_ie_subfields:
  cc_api_call_setup_ind_common:
  cisco-username=
  ----- ccCallInfo IE subfields -----
  cisco-ani=
  cisco-anitype=0
  cisco-aniplan=0
```

```
cisco-anipi=0
cisco-anisi=0
dest=5555
cisco-desttype=0
cisco-destplan=1
cisco-rdie=FFFFFFFF
cisco-rdn=
cisco-rdntype=-1
cisco-rdnplan=-1
cisco-rdnpi=-1
cisco-rdnsi=-1
cisco-redirectreason=-1 fwd_final_type =0
final_redirectNumber =
hunt_group_timeout =0
```

入站撥號對等體1已匹配

```
*Feb 4 03:24:54.115: //-1/972590A48011/CCAPI/cc_api_call_setup_ind_common:
  Interface=0x66C30F98, Call Info(
    Calling Number=(Calling Name=(TON=Unknown, NPI=Unknown, Screening=Not Screened,
    Presentation=Allowed),
    Called Number=5555(TON=Unknown, NPI=ISDN),
    Calling Translated=FALSE, Subscriber Type Str=RegularLine, FinalDestinationFlag=TRUE,
    Incoming Dial-peer=1, Progress Indication=NULL(0), Calling IE Present=FALSE,
    Source Trkgrp Route Label=, Target Trkgrp Route Label=, CLID Transparent=FALSE),
    Call Id=-1
```

呼叫被轉到藥房服務

```
*Feb 4 03:24:54.115: //63/972590A48011/CCAPI/cc_process_call_setup_ind:
  >>>CCAPI handed cid 63 with tag 1 to app "_ManagedAppProcess_Pharmacy"
*Feb 4 03:24:54.115: //63/972590A48011/CCAPI/ccCallSetupAck:
  Call Id=63
```

呼叫在ISDN端連線

```
*Feb 4 03:24:54.119: ISDN Se3/0:23 Q931: TX -> CONNECT pd = 8 callref = 0x8099
*Feb 4 03:24:54.119: //63/972590A48011/CCAPI/ccCallHandoff:
  Silent=FALSE, Application=0x67569410, Conference Id=0xFFFFFFFF
*Feb 4 03:24:54.119: //63//VXML:/Open_CallHandoff:
```

網關開始執行CVPSelfServiceBootstrap.vxml VoiceXML指令碼

```
*Feb 4 03:24:54.131: //63/972590A48011/VXML:/vxml_vxml_proc:
<vxml>
  URI(abs):flash:CVPSelfServiceBootstrap.vxml
  scheme=flash
  path=CVPSelfServiceBootstrap.vxml
  base=
  URI(abs):flash:CVPSelfServiceBootstrap.vxml
  scheme=flash
  path=CVPSelfServiceBootstrap.vxml lang=none version=2.0
<script>:
*Feb 4 03:24:54.175: //63/972590A48011/VXML:/vxml_expr_eval:
<var>: namep=handoffstring expr=session.handoff_string
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var handoffstring=session.handoff_string)
<var>: namep=application expr=getValue('APP')
```

```
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var application=getValue('APP'))
<var>: namep=port expr=getValue('PORT')
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var port=getValue('PORT'))
<var>: namep=callid expr=getValue('CALLID')
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var callid=getValue('CALLID'))
<var>: namep=servername expr=getValue('PRIMARY')
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var servername=getValue('PRIMARY'))
<var>: namep=var1 expr=getValue('var1')
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var var1=getValue('var1'))
<var>: namep=var2 expr=getValue('var2')
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var var2=getValue('var2'))
<var>: namep=var3 expr=getValue('var3')
*Feb 4 03:24:54.243: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var var3=getValue('var3'))
<var>: namep=var4 expr=getValue('var4')
*Feb 4 03:24:54.247: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var var4=getValue('var4'))
<var>: namep=var5 expr=getValue('var5')
*Feb 4 03:24:54.247: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var var5=getValue('var5'))
<var>: namep=status expr=getValue('status')
*Feb 4 03:24:54.247: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var status=getValue('status'))
<var>: namep=prevapp expr=getValue('prevapp')
*Feb 4 03:24:54.247: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var prevapp=getValue('prevapp'))
<var>: namep=survive expr=getValue('survive')
*Feb 4 03:24:54.247: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var survive=getValue('survive'))
<var>: namep=handoffExit
*Feb 4 03:24:54.247: //63/972590A48011/VXML:/vxml_expr_eval:
  expr=(var handoffExit)
```

[網關向VXML伺服器傳送HTTP GET請求](#)

```
*Feb 4 03:24:54.255: //63//HTTTPC:/httpc_write_stream: Client write buffer fd(0):
GET /CVP/Server?application=GoodPrescriptionRefillApp7&callid=972590A4-185511D6-80110013-803E8C8E&session.connection.remote.uri=5555
&session.connection.local.uri=5555 HTTP/1.1
Host: 172.18.110.75:7000
Content-Type: application/x-www-form-urlencoded
Connection: close
Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml,
application/x-voicexml, text/plain, text/html, audio/basic, audio/wav, multipart/form-data,
application/octet-stream
User-Agent: Cisco-IOS-C5400/12.4
```

[網關收到來自VXML伺服器的200 OK消息](#)

此響應的消息正文包含VXML文檔(1)。VXML文檔告知網關播放位於媒體伺服器中的名為Welcome-1.wav的媒體檔案

```
*Feb 4 03:24:54.263: processing server rsp msg: msg(63AC8784)
URL:http://172.18.110.75:7000/CVP/Server?application=GoodPrescriptionRefillApp7&
callid=972590A4-185511D6-80110013-803E8C8E&session.connection.remote.uri=
```



```
5555&session.connection.local.uri=5555, fd(0):
*Feb 4 03:24:54.263: Request msg: GET /CVP/Server?application=GoodPrescriptionRefillApp7&
callid=972590A4-185511D6-80110013-803E8C8E
&session.connection.remote.uri=5555&session.connection.local.uri=5555 HTTP/1.1
*Feb 4 03:24:54.263: Message Response Code: 200
*Feb 4 03:24:54.263: Message Rsp Decoded Headers:
*Feb 4 03:24:54.263: Date:Thu, 17 May 2007 15:48:31 GMT
*Feb 4 03:24:54.263: Content-Type:text/xml;charset=ISO-8859-1
*Feb 4 03:24:54.263: Connection:close
*Feb 4 03:24:54.263: Set-Cookie:JSESSIONID=6FE82FC3B0E02909CA5A9307D57F00E1; Path=/CVP
*Feb 4 03:24:54.263: headers:
*Feb 4 03:24:54.263: HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Set-Cookie: JSESSIONID=6FE82FC3B0E02909CA5A9307D57F00E1; Path=/CVP
Content-Type: text/xml;charset=ISO-8859-1
Date: Thu, 17 May 2007 15:48:31 GMT
Connection: close
```

```
*Feb 4 03:24:54.263: body:
*Feb 4 03:24:54.263: <?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&
calling_into=GoodPrescriptionRefillApp7" xml:lang="en-us">
  <form id="audium_start_form">
    <block>
      <assign name="audium_vxmlLog" expr="" />
      <assign name="audium_element_start_time_millisecs" expr="new Date().getTime()" />
      <goto next="#start" />
    </block>
  </form>
  <form id="start">
    <block>
      <prompt bargein="true">
        <audio src="http://172.18.110.75/Welcome-1.wav" />
      </prompt>
      <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^'^ + application.getElap
sedTime(audium_element_start_time_millisecs)" />
      <submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog" />
    </block>
  </form>
</vxml>
```

[網關向媒體伺服器傳送HTTP GET請求以下載Welcome-1.wav檔案](#)

```
*Feb 4 03:24:54.371: //63//HTTTPC:/httpc_write_stream: Client write buffer fd(0):
GET /Welcome-1.wav HTTP/1.1
Host: 172.18.110.75
Content-Type: application/x-www-form-urlencoded
Connection: close
Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml,
application/x-voicexml, text/plain, text/html, audio/basic, audio/wav, multipart/form-data,
application/octet-stream
User-Agent: Cisco-IOS-C5400/12.4
```

[網關從媒體伺服器收到200 OK並接收HTTP消息正文中Welcome-1.wav的內容](#)

```
*Feb 4 03:24:54.391: read data from the socket 0 : first 400 bytes of data:
HTTP/1.1 200 OK
Content-Length: 76152
Content-Type: audio/wav
```

Last-Modified: Thu, 03 May 2007 19:47:43 GMT
Accept-Ranges: bytes
ETag: "b27d69eabb8dc71:2eb"
Server: Microsoft-IIS/6.0
Date: Thu, 17 May 2007 15:48:31 GMT
Connection: close

RIFFo(Unprintable char...)1057415645666D7420120007010401F00401F00108000666163744
000529106461746152910FFFFFFFFFFFFFFFF7AFFFFFFFFD7E7E

[網關將POST HTTP請求傳送到VXML文檔的「提交」選項中定義的伺服器\(1\)](#)

*Feb 4 03:24:54.371: //63//HTTPC:/httpc_write_stream: Client write buffer fd(1):
POST /CVP/Server HTTP/1.1
Host: 172.18.110.75:7000
Content-Length: 67
Content-Type: application/x-www-form-urlencoded
Cookie: \$Version=0; JSESSIONID=6FE82FC3B0E02909CA5A9307D57F00E1; \$Path=/CVP
Connection: close
Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml,
application/x-voicexml, text/plain, text/html, audio/basic, audio/wav, multipart/form-data,
application/octet-stream
User-Agent: Cisco-IOS-C5400/12.4

[網關收到其POST HTTP請求的200 OK](#)

郵件正文包含VXML文檔(2)。VXML文檔告訴網關播放「早安，感謝您致電海迪安藥店。

注意：此提示需要由文本到語音伺服器合成。

*Feb 4 03:24:54.379: processing server rsp msg: msg(63AC8D3C)
URL:http://172.18.110.75:7000/CVP/Server, fd(1):
*Feb 4 03:24:54.379: Request msg: POST /CVP/Server HTTP/1.1
*Feb 4 03:24:54.379: Message Response Code: 200
*Feb 4 03:24:54.379: Message Rsp Decoded Headers:
*Feb 4 03:24:54.379: Date:Thu, 17 May 2007 15:48:31 GMT
*Feb 4 03:24:54.379: Content-Type:text/xml;charset=ISO-8859-1
*Feb 4 03:24:54.379: Connection:close
*Feb 4 03:24:54.379: headers:
***Feb 4 03:24:54.379: HTTP/1.1 200 OK**
Server: Apache-Coyote/1.1
Content-Type: text/xml;charset=ISO-8859-1
Date: Thu, 17 May 2007 15:48:31 GMT
Connection: close

*Feb 4 03:24:54.379: body:
*Feb 4 03:24:54.379: <?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&
calling_into=GoodPrescriptionRefillApp7" xml:lang="en-us">
<form id="audium_start_form">
<block>
<assign name="audium_vxmlLog" expr="" />
<assign name="audium_element_start_time_millisecs" expr="new Date().getTime()" />
<goto next="#start" />
</block>
</form>
<form id="start">
<block>

```

    <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^'^ + application.getElap
sedTime(audium_element_start_time_millisecs)" />
    <submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog" />
</block>
</form>
</vxml>

```

[網關按照VXML文檔的「提交」選項中的定義傳送HTTP POST請求\(2\)](#)

```

*Feb  4 03:24:54.399: //63//HTTTPC:/httpc_write_stream: Client write buffer fd(1):
POST /CVP/Server HTTP/1.1
Host: 172.18.110.75:7000
Content-Length: 67
Content-Type: application/x-www-form-urlencoded
Cookie: $Version=0; JSESSIONID=6FE82FC3B0E02909CA5A9307D57F00E1; $Path=/CVP
Connection: close
Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml,
application/x-voicexml, text/plain, text/html, audio/basic, audio/wav, multipart/form-data,
application/octet-stream
User-Agent: Cisco-IOS-C5400/12.4

```

[網關收到200 OK響應HTTP POST請求](#)

郵件正文包含VXML文檔(3)。此VXML文檔定義了一個選單提示，告訴呼叫者輸入1或者說重新填寫，輸入2或者說藥劑師。提示由TTS伺服器合成。使用ASR識別輸入（語音/dtmf）。

```

*Feb  4 03:24:54.415: processing server rsp msg: msg(63AC8F24)
URL:http://172.18.110.75:7000/CVP/Server, fd(1):
*Feb  4 03:24:54.415: Request msg: POST /CVP/Server HTTP/1.1
*Feb  4 03:24:54.415: Message Response Code: 200
*Feb  4 03:24:54.415: Message Rsp Decoded Headers:
*Feb  4 03:24:54.415: Date:Thu, 17 May 2007 15:48:31 GMT
*Feb  4 03:24:54.415: Content-Type:text/xml;charset=ISO-8859-1
*Feb  4 03:24:54.415: Connection:close
*Feb  4 03:24:54.415: headers:
*Feb  4 03:24:54.415: HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: text/xml;charset=ISO-8859-1
Date: Thu, 17 May 2007 15:48:31 GMT
Connection: close

*Feb  4 03:24:54.415: body:
*Feb  4 03:24:54.415: ... Buffer too large - truncated to (4096) len.
*Feb  4 03:24:54.415: <?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&
calling_into=GoodPrescriptionRefillApp7" xml:lang="en-us">
  <property name="timeout" value="60s" />
  <property name="confidencelevel" value="0.40" />
  <form id="audium_start_form">
    <block>
      <assign name="audium_vxmlLog" expr="" />
      <assign name="audium_element_start_time_millisecs" expr="new Date().getTime()" />
      <goto next="#start" />
    </block>
  </form>

```

```
<form id="start">
  <block>
    <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" />
    <goto nextitem="choice_fld" />
  </block>
  <field name="choice_fld" modal="false">
    <property name="inputmodes" value="dtmf voice" />
  </field>
</form>
```

Or.

Say pharmacist or press 2.

I did not understand that.

Say refills or press 1.

Say pharmacist or press 2.

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '1' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
</catch>
<catch event="nomatch" count="2">
  <prompt bargein="true">Sorry, I still did not get that.
</prompt>
```

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

Press 2 to speak to a pharmacist.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '2' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
</catch>
<catch event="nomatch" count="3">
  <prompt bargein="true">Gee.
</prompt>
```

Looks like we are having some trouble.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '3' + '^^^' +
```

```
application.getElapsedTime(audium_element_start_time_millisecs)" />
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
  <var name="maxNoMatch" expr="'yes'" />
  <submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog maxNoMatch" />
</catch>
<catch event="noinput">
  <prompt bargein="true">Sorry.
```

I did not hear that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

```
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '1' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'noinput_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
  </catch>
  <catch event="noinput" count="2">
    <prompt bargein="true">I am sorry.
```

I still did not hear that.

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

Press 2 to speak to a pharmacist.</prompt>

```
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '2' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'noinput_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
  </catch>
  <catch event="noinput" count="3">
    <prompt bargein="true">Ge.
```

Looks like we are having some trouble.</prompt>

```
  <assign name="audium_vxmlLog" expr="
*Feb 4 03:24:54.435:
*Feb 4 03:24:54.435: //63//AFW_:/vapp_bgpost_done: status=http OK
*Feb 4 03:24:54.435: //63//HTTTPC:/httpc_socket_cleanup: fd=-1, bytes_sent=531
*Feb 4 03:24:54.435: //63//AFW_:/vapp_driver: evtID: 194 vapp record state: 0
*Feb 4 03:24:54.435: //63//AFW_:/vapp_bgpost_done_event:
*Feb 4 03:24:54.435: //63/972590A48011/VXML:/vxml_bgload_post_done:
  vxmlhandle=6767ECFC status=0 async_status=400000000
*Feb 4 03:24:54.435: //63/972590A48011/VXML:/vxml_bgload_post_done:
  Loading file with url (http://172.18.110.75:7000/CVP/Server)
*Feb 4 03:24:54.435: //63/972590A48011/VXML:/vxml_bgload_post_done: Script Content
<?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&
calling_into=GoodPrescriptionRefillApp7" xml:lang="en-us">
  <property name="timeout" value="60s" />
  <property name="confidencelevel" value="0.40" />
  <form id="audium_start_form">
    <block>
      <assign name="audium_vxmlLog" expr="" />
      <assign name="audium_element_start_time_millisecs" expr="new Date().getTime()" />
      <goto next="#start" />
```

```
</block>
</form>
<form id="start">
  <block>
    <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" />
    <goto nextitem="choice_fld" />
  </block>
  <field name="choice_fld" modal="false">
    <property name="inputmodes" value="dtmf voice" />
  </field>
</form>
```

Or.

Say pharmacist or press 2.

I did not understand that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '1' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
</catch>
<catch event="nomatch" count="2">
  <prompt bargein="true">Sorry, I still did not get that.
```

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

Press 2 to speak to a pharmacist.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '2' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
</catch>
<catch event="nomatch" count="3">
  <prompt bargein="true">Gee.
```

Looks like we are having some trouble.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '3' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
<var name="maxNoMatch" expr="'yes'" />
<submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog maxNoMatch" />
</catch>
<catch event="noinput">
<prompt bargein="true">Sorry.
```

I did not hear that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '1' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'noinput_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
</catch>
<catch event="noinput" count="2">
<prompt bargein="true">I am sorry.
```

I still did not hear that.

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

Press 2 to speak to a pharmacist.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '2' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'noinput_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
</catch>
<catch event="noinput" count="3">
<prompt bargein="true">Gee.
```

Looks like we are having some trouble.</prompt>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '3' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'noinput_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
<var name="maxNoInput" expr="'yes'" />
<submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog maxNoInput" />
</catch>
```

<filled>

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||utterance$$$' +
```

```

choice_fld$.utterance + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" />
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||inputmode$$$' +
choice_fld$.inputmode + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" />
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||interpretation$$$' +
choice_fld + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)" />
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||confidence$$$' +
choice_fld$.confidence + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
  <var name="confidence" expr="choice_fld$.confidence" />

  </filled>
</field>
</form>
</vxml>

```

網關建立用於DTMF/語音識別的語法

一旦網關與ASR伺服器建立RTSP會話，這些語法就會傳送到ASR伺服器。

```

*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_change_server:
asr_server=rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//MRCP:/mrcp_change_url: sess-id: 17,
url=rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//RTSP:/rtsplib_pmh_parse_url:
*Feb  4 03:24:54.447: //-1//RTSP:/rtsplib_pmh_parse_url: Input-Url:
rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//RTSP:/rtsplib_pmh_parse_url: Hostname:
10.86.177.39Port      : 554Path      : recognizer
*Feb  4 03:24:54.447: //-1//RTSP:/rtsplib_pmh_parse_url:
*Feb  4 03:24:54.447: //-1//RTSP:/rtsplib_pmh_parse_url: Input-Url:
rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//RTSP:/rtsplib_pmh_parse_url: Hostname:
10.86.177.39Port      : 554Path      : recognizer
*Feb  4 03:24:54.447: //63//MRCP:/mrcp_change_url: fsm (674DA1E4) already defined
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option322@field.grammar
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> prescription</rule></grammar>
*Feb  4 03:24:54.447: //-1//MRCP:/mrcp_add_param: param: Speech-Language:
*Feb  4 03:24:54.447: //-1//MRCP:/mrcp_add_param: param: Content-Base:
*Feb  4 03:24:54.447: //-1//MRCP:/mrcp_recognizer_define_grammar: sess-id: 17
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option323@field.grammar
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" mode="dtmf" root="root"><rule id="root"

```



```
scope="public">1</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option324@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> refills</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option325@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> prescription refills</rule></gram
mar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option326@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> refill my prescription</rule></gr
ammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option327@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> I want to refill my prescription</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option328@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
```

```
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> refills please</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar:
grammar_id=session:option329@field.grammar
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> Pharmacist</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
grammar_id=session:option330@field.grammar
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" mode="dtmf" root="root"><rule id="root"
scope="public">2</rule></grammar>
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
grammar_id=session:option331@field.grammar
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> I want to speak to a pharmacist</rule></grammar>
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
grammar_id=session:option332@field.grammar
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> pharmacist please</rule></grammar>
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP://mrcp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar:
grammar_id=session:link333@document.grammar
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.451: //63//AFW://vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar xmlns="http://www.w3.org/2001/06/grammar" mode="voice" version="1.0"
```

```
root="Hotlink_02_VOICE" xml:lang="en-us">
  <rule id="Hotlink_02_VOICE" scope="public">
    <one-of>
      <item>operator>
      <item>agent> <item>pharmacist> </one-of> </rule> </grammar> *Feb 4 03:24:54.451: //-
1//MRCP:/mrCP_add_param: param: Speech-Language: *Feb 4 03:24:54.451: //-
1//MRCP:/mrCP_add_param: param: Content-Base: *Feb 4 03:24:54.451: //-
1//MRCP:/mrCP_recognizer_define_grammar: sess-id: 17 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:link334@document.grammar *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: remoteupdate=0 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar
xmlns="http://www.w3.org/2001/06/grammar" mode="voice" version="1.0" root="Hotlink_01_VOICE"
xml:lang="en-us"> <rule id="Hotlink_01_VOICE" scope="public"> <one-of> <item>operator>
<item>agent> <item>pharmacist> </one-of> </rule> </grammar> *Feb 4 03:24:54.451: //-
1//MRCP:/mrCP_add_param: param: Speech-Language: *Feb 4 03:24:54.451: //-
1//MRCP:/mrCP_add_param: param: Content-Base: *Feb 4 03:24:54.451: //-
1//MRCP:/mrCP_recognizer_define_grammar: sess-id: 17 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:help@grammar *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
xml_lang=en-us *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=1 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar
version="1.0" xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule
id="root" scope="public">help</rule></grammar> *Feb 4 03:24:54.451: //-1//MRCP:/mrCP_add_param:
param: Speech-Language: *Feb 4 03:24:54.451: //-1//MRCP:/mrCP_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mrCP_recognizer_define_grammar: sess-id: 17 *Feb 4
03:24:54.451: //63//AFW_:/vapp_asr: grammar_id=session:option322@field.grammar
grammar_id=session:option323@field.grammar grammar_id=session:option324@field.grammar
grammar_id=session:option325@field.grammar grammar_id=session:option326@field.grammar
grammar_id=session:option327@field.grammar grammar_id=session:option328@field.grammar
grammar_id=session:option329@field.grammar grammar_id=session:option330@field.grammar
grammar_id=session:option331@field.grammar grammar_id=session:option332@field.grammar
grammar_id=session:link333@document.grammar grammar_id=session:link334@document.grammar
grammar_id=session:help@grammar
```

[網關向ASR伺服器傳送RTSP SETUP請求](#)

```
*Feb 4 03:24:54.475: #####
*Feb 4 03:24:54.475: Request
*Feb 4 03:24:54.475: SETUP rtsp://10.86.177.39/recognizer RTSP/1.0
CSeq: 0
Transport: rtp/avp;unicast;client_port=17704;mode=record
```

[網關收到來自ASR伺服器的200 OK響應](#) 200 OK響應的SDP包含網關需要向其傳送RTP資料包的ASR伺服器的IP地址和UDP埠號。

```
*Feb 4 03:24:54.531: //-1//RTSP:/rtsp_process_single_svr_resp:
*Feb 4 03:24:54.531: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 0
Session: 27b1560a_00000748_464c95e8_000b_0000
Transport: RTP/AVP;unicast;client_port=17704;server_port=1224-1225;mode=record
Content-Length: 233
Content-Type: application/sdp
```

```
v=0
o=- 3388413032 3388413032 IN IP4 10.86.177.39
s=Nuance Media Server/1.0.0 SP10 (Windows 2000)
c=IN IP4 10.86.177.39
t=0 0
m=audio 1224 RTP/AVP 0 101
a=rtpmap:0 pcmu/8000
a=rtpmap:101 telephone-event/8000
```

a=fmtp:101 0-15

[網關將MRCP「DEFINE-GRAMMAR」請求傳送到嵌入在RTSP ANNOUNCE請求中的ASR伺服器](#)

此處只顯示一個請求：

```
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: rtsp_partial_socket_send: (fd:0 len:163) 400 bytes of data:
ANNOUNCE rtsp://10.86.177.39/recognizer RTSP/1.0
CSeq: 1
Session: 27b1560a_00000748_464c95e8_000b_0000
Content-Type: application/mrcp
Content-Length: 390
```

```
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: (socket:0) (bytes-sent:163)
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: rtsp_partial_socket_send: (fd:0 len:28) 400 bytes of data:
DEFINE-GRAMMAR 3 MRCP/1.0
```

```
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: (socket:0) (bytes-sent:28)
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: rtsp_partial_socket_send: (fd:0 len:70) 400 bytes of data:
Speech-Language: en-us
Content-Base: http://172.18.110.75:7000/CVP/
```

```
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: (socket:0) (bytes-sent:70)
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: rtsp_partial_socket_send: (fd:0 len:99) 400 bytes of data:
Content-Type: application/grammar+xml
Content-Id: option322@field.grammar
Content-Length: 193
```

```
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: (socket:0) (bytes-sent:99)
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: rtsp_partial_socket_send: (fd:0 len:193) 400 bytes of data:
```

```
xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root">
```

[網關收到其DEFINE-GRAMMAR請求的200 COMPLETE響應](#)

```
*Feb 4 03:24:54.555: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 1
Session: 27b1560a_00000748_464c95e8_000b_0000
```

Content-Length: 27
Content-Type: application/mrcp

MRCP/1.0 3 200 COMPLETE

網關向ASR伺服器傳送MRCP「識別」請求

*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:24) 400 bytes of data:
RECOGNIZE 17 MRCP/1.0

*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.619: (socket:0) (bytes-sent:24)
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:347) 400 bytes of data:
Speech-Language: en-us
Confidence-Threshold: 40
Sensitivity-Level: 50
Speed-Vs-Accuracy: 50
Dtmf-Interdigit-Timeout: 10000
Dtmf-Term-Timeout: 0
Dtmf-Term-Char: #
No-Input-Timeout: 60000
N-Best-List-Length: 1
Logging-Tag: 63:63
Accept-Charset: charset: utf-8
Content-Base: http://172.18.110.75:7000/CVP/
Recognizer-Start-Timers: false

*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.619: (socket:0) (bytes-sent:347)
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:52) 400 bytes of data:
Content-Type: text/uri-list
Content-Length: 453

*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.619: (socket:0) (bytes-sent:52)
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:256) 400 bytes of data:
session:option322@field.grammar
session:option323@field.grammar
session:option324@field.grammar
session:option325@field.grammar
session:option326@field.grammar
session:option327@field.grammar
session:option328@field.grammar
session:option329@field.grammar
*Feb 4 03:24:54.623: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.623: (socket:0) (bytes-sent:256)
*Feb 4 03:24:54.623: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.623: rtsp_partial_socket_send: (fd:0 len:197) 400 bytes of data:
session:option330@field.grammar
session:option331@field.grammar
session:option332@field.grammar
session:link333@document.grammar
session:link334@document.grammar
session:help@grammar

ASR伺服器向識別請求傳送正在進行的響應

*Feb 4 03:24:54.875: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 15
Session: 27b1560a_00000748_464c95e8_000b_0000
Content-Length: 31

Content-Type: application/mrcp

MRCP/1.0 17 200 IN-PROGRESS

Gateway完成Welcome-1.wav媒體檔案的下載，向呼叫者播放提示並將其儲存在快取中

```
*Feb 4 03:25:07.811: //63//HTTPC:/httpc_is_cached: HTTPC_FILE_IS_CACHED
*Feb 4 03:25:07.811: //-1//HTTPC:/httpc_set_cache_revoke_cb:
Registering revoke_callback(0x61D9672C)+pcontext(0x6767A9FC) for cache p(0x672DA9C8)
*Feb 4 03:25:07.811: //63//AFW_:/vapp_driver: evtID: 145 vapp record state: 0
*Feb 4 03:25:07.811: //63//AFW_:/vapp_play_done: evID=145 reason=13, protocol=2,
status_code=0, dur=9504, rate=0
*Feb 4 03:25:07.811: //63/972590A48011/VXML:/vxml_media_done:
```

網關向TTS伺服器傳送RTSP SETUP請求

```
*Feb 4 03:25:07.811: //-1//RTSP:/rtspplib_send_setup:
*Feb 4 03:25:07.811: #####
*Feb 4 03:25:07.811: Request
*Feb 4 03:25:07.811: SETUP rtsp://10.86.177.39/synthesizer RTSP/1.0
CSeq: 16
Session: 27b1560a_00000748_464c95e8_000b_0000
Transport: rtp/avp;unicast;source=172.18.110.77;destination=172.18.110.77;
client_port=17704-17705
```

網關收到來自TTS伺服器的200 OK響應，以響應RTSP SETUP請求

```
*Feb 4 03:25:07.831: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 16
Session: 27b1560a_00000748_464c95e8_000b_0000
Transport: RTP/AVP;unicast;client_port=17704;server_port=1224-1225
```

網關向TTS伺服器傳送MRCP「SPEAK」請求，播放「早安，感謝您致電Audium藥店」提示

```
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:165) 400 bytes of data:
ANNOUNCE rtsp://10.86.177.39/synthesizer RTSP/1.0
CSeq: 17
Session: 27b1560a_00000748_464c95e8_000b_0000
Content-Type: application/mrcp
Content-Length: 307
```

```
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: (socket:0) (bytes-sent:165)
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:19) 400 bytes of data:
SPEAK 2 MRCP/1.0
```

```
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: (socket:0) (bytes-sent:19)
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:114) 400 bytes of data:
Kill-On-Barge-In: true
Speech-Language: en-us
Logging-Tag: 63:63
Content-Base: http://172.18.110.75:7000/CVP/
```

```
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: (socket:0) (bytes-sent:114)
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:65) 400 bytes of data:
Content-Type: application/synthesis+ssml
Content-Length: 109
```

```
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
```

*Feb 4 03:25:07.835: (socket:0) (bytes-sent:65)
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:109) 400 bytes of data:

pharmacy.

TTS伺服器傳送SPEAK請求的「正在進行」響應

*Feb 4 03:25:08.031: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 17
Session: 27b1560a_00000748_464c95e8_000b_0000
Content-Length: 30
Content-Type: application/mrcp

MRCP/1.0 2 200 IN-PROGRESS

播放提示後，TTS伺服器向網關傳送MRCP「SPEAK-COMplete」響應

*Feb 4 03:25:11.911: rtsp_process_single_svr_resp: 400 bytes of data:
ANNOUNCE rtsp://10.86.177.39/synthesizer RTSP/1.0
CSeq: 1
Session: 27b1560a_00000748_464c95e8_000b_0000
Content-Length: 68
Content-Type: application/mrcp

SPEAK-COMplete 2 COMPLETE MRCP/1.0
Completion-Cause: 000 normal

ASR伺服器檢測語音啟動，並使用START-OF-SPEECH響應通知網關

*Feb 4 03:25:19.711: //-1//RTSP:/rtsp_process_single_svr_resp:
*Feb 4 03:25:19.711: rtsp_process_single_svr_resp: 400 bytes of data:
ANNOUNCE rtsp://10.86.177.39/recognizer RTSP/1.0
CSeq: 3
Session: 27b1560a_00000748_464c95e8_000b_0000
Content-Length: 61
Content-Type: application/mrcp

START-OF-SPEECH 17 IN-PROGRESS MRCP/1.0
Proxy-Sync-Id: 1

網關向MRCP通告請求傳送200 OK響應

*Feb 4 03:25:19.711: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:19.711: rtsp_partial_socket_send: (fd:0 len:76) 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 3
Session: 27b1560a_00000748_464c95e8_000b_0000

ASR伺服器識別單詞「Refills」，並向網關傳送MRCP「RECOGNITION-COMplete」消息

*Feb 6 00:58:17.960: rtsp_process_single_svr_resp: 400 bytes of data:
ANNOUNCE rtsp://10.86.177.39/recognizer RTSP/1.0
CSeq: 4
Session: 27b1560a_00000748_464f166e_000f_0000
Content-Length: 848
Content-Type: application/mrcp

RECOGNITION-COMLETE 17 COMPLETE MRCP/1.0
Completion-Cause: 000 success
Content-Type: application/x-nlsml
Content-Length: 716

```
<?xml version="1.0" encoding="UTF-8"?>  
<result grammar="session:option420@field.grammar">  
  <interpreta
```

```
*Feb 4 03:25:20.867: //-1//RTSP:/rtsp_pmh_parse_svr_response:  
*Feb 4 03:25:20.867: //-1//RTSP:/rtsp_pmh_parse_svr_response:  
just one response(may be partial): 849
```

[在從ASR伺服器接收到成功的識別通知後，VXML網關傳送在VXML文檔的SUBMIT標籤中指定的一個HTTP POST請求\(2\)](#)此POST請求通知VXML伺服器使用者已選擇「重新填寫」選項。

```
*Feb 4 03:25:20.963: //63/972590A48011/VXML:/vxml_vapp_bgpost:  
  url http://172.18.110.75:7000/CVP/Server cachable 1 timeout 0 body audium_vxmlLog=%7C%7C%  
7Caudio_group$$$initial_audio_group%5E%5  
E%5E4%7C%7C%7Cutterance$$$refills%5E%5E%5E26516%7C%7C%7Cinputmode$$$voice%5E%5E%5E26516%  
7C%7C%7Cinterpretation$$$refills%5E%5E%5E265  
16%7C%7C%7Cconfidence$$$0.55%5E%5E%5E26516&confidence=0.55&choice_fld=refills  
len 271maxage -1 maxstale -1  
*Feb 4 03:25:20.963: //63//AFW_:/vapp_bgpost: url=http://172.18.110.75:7000/CVP/Server;  
mime_type=application/x-www-form-urlencoded; len=271; iov_base=audium_vxmlLog=%7C%7C%  
7Caudio_group$$$initial_audio_group%5E%5E%5E4%7C%7C%7Cutterance$$$refills%5E%5E%5E26516%7C  
%7C%7Cinputmode$$$voice%5E%5E%5E26516%7C%7C%7Cinterpretation$$$refills%5E%5E%5E26516%7C%7C%  
7Cconfidence$$$0.55%5E%5E%5E26516&confide  
nce=0.55&choice_fld=refills
```

```
*Feb 4 03:25:21.039: //63//HTTPC:/httpc_socket_send:  
*Feb 4 03:25:21.039: about to send data to the socket 0 : first 400 bytes of data:  
POST /CVP/Server HTTP/1.1  
Host: 172.18.110.75:7000  
Content-Length: 271  
Content-Type: application/x-www-form-urlencoded  
Cookie: $Version=0; JSESSIONID=6FE82FC3B0E02909CA5A9307D57F00E1; $Path=/CVP  
Connection: close
```

```
Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml,  
application/x-voicexml, text/plain, text/html, audio/basic, audio/wav, multipart/form-dat  
VXML伺服器傳送的最後一個VXML文檔僅包含表單中的退出標籤這將通知網關終止VXML會話。
```

```
*Feb 4 03:26:20.623: processing server rsp msg: msg(63ABB204)  
URL:http://172.18.110.75:7000/CVP/Server, fd(0):  
*Feb 4 03:26:20.623: Request msg: POST /CVP/Server HTTP/1.1  
*Feb 4 03:26:20.623: Message Response Code: 200  
*Feb 4 03:26:20.623: Message Rsp Decoded Headers:  
*Feb 4 03:26:20.623: Date:Thu, 17 May 2007 15:49:57 GMT  
*Feb 4 03:26:20.623: Content-Type:text/xml;charset=ISO-8859-1  
*Feb 4 03:26:20.623: Connection:close  
*Feb 4 03:26:20.623: Set-Cookie:JSESSIONID=NULL; Expires=Thu, 01-Jan-1970 00:00:10 GMT;  
Path=/CVP  
*Feb 4 03:26:20.623: headers:  
*Feb 4 03:26:20.623: HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Set-Cookie: JSESSIONID=NULL; Expires=Thu, 01-Jan-1970 00:00:10 GMT; Path=/CVP  
Content-Type: text/xml;charset=ISO-8859-1  
Date: Thu, 17 May 2007 15:49:57 GMT  
Connection: close
```

```
*Feb 4 03:26:20.627: body:  
*Feb 4 03:26:20.627: <?xml version="1.0" encoding="UTF-8"?>  
<vxml version="2.0" xml:lang="en-us">  
  <catch event="vxml.session.error">  
    <exit />
```



```
</catch>
<catch event="telephone.disconnect.hangup">
  <exit />
</catch>
<catch event="telephone.disconnect">
  <exit />
</catch>
<catch event="error.unsupported.object">
  <exit />
</catch>
<catch event="error.unsupported.language">
  <exit />
</catch>
<catch event="error.unsupported.format">
  <exit />
</catch>
<catch event="error.unsupported.element">
  <exit />
</catch>
<catch event="error.unsupported.builtin">
  <exit />
</catch>
<catch event="error.unsupported">
  <exit />
</catch>
<catch event="error.semantic">
  <exit />
</catch>
<catch event="error.noresource">
  <exit />
</catch>
<catch event="error.noauthorization">
  <exit />
</catch>
<catch event="error.eventhandler.notfound">
  <exit />
</catch>
<catch event="error.connection.noroute">
  <exit />
</catch>
<catch event="error.connection.noresource">
  <exit />
</catch>
<catch event="error.connection.nolicense">
  <exit />
</catch>
<catch event="error.connection.noauthorization">
  <exit />
</catch>
<catch event="error.connection.baddestination">
  <exit />
</catch>
<catch event="error.condition.baddestination">
  <exit />
</catch>
<catch event="error.com.cisco.media.resource.unavailable">
  <exit />
</catch>
<catch event="error.com.cisco.handoff.failure">
  <exit />
</catch>
<catch event="error.com.cisco.callhandoff.failure">
  <exit />
</catch>
```

```

<catch event="error.com.cisco.aaa.authorize.failure">
  <exit />
</catch>
<catch event="error.com.cisco.aaa.authenticate.failure">
  <exit />
</catch>
<catch event="error.badfetch.https">
  <exit />
</catch>
<catch event="error.badfetch.http">
  <exit />
</catch>
<catch event="error.badfetch">
  <exit />
</catch>
<catch event="error">
  <exit />
</catch>
<catch event="disconnect.com.cisco.handoff">
  <exit />
</catch>
<catch event="connection.disconnect.hangup">
  <exit />
</catch>
<catch event="connection.disconnect">
  <exit />
</catch>
<form>
  <block>
    <exit />
  </block>
</form>
</vxml>

```

網關終止VXML應用程式

```

*Feb 4 03:26:28.803: //63/972590A48011/VXML:/vxml_vapp_terminate:
  vapp_status=0 ref_count 0
*Feb 4 03:26:28.803: //63//AFW_:/vapp_terminate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_session_exit_event_name: Exit Event vxml.session.complete
*Feb 4 03:26:28.803: //63//AFW_:/AFW_M_VxmlModule_Terminate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checksessionstate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checkifdone: Object: 1, Leg: 1
*Feb 4 03:26:28.803: //63/972590A48011/VXML:/pop_exec_stack:

*Feb 4 03:26:28.803: pop_exec_stack: sidp->vxmlp->urip=http://172.18.110.75:7000/CVP/Server
*Feb 4 03:26:28.803: //63/972590A48011/VXML:/vxml_leave_scope:
  scope=application
*Feb 4 03:26:28.803: vxml_tree_delete:mem_mgr_mempool_free: mem_refcnt(6848EE98)=
0 - mempool cleanup
*Feb 4 03:26:28.803: vxml_tree_delete:mem_mgr_mempool_free: mem_refcnt(6848CD00)=
0 - mempool cleanupnls_mem_free
*Feb 4 03:26:28.803: nls_mem_free:mem_mgr_mempool_free: mem_refcnt(67651498)=
0 - mempool cleanup
*Feb 4 03:26:28.803: //63/972590A48011/VXML:/vxml_session_delete:

*Feb 4 03:26:28.803: vxml_session_delete:mem_mgr_mempool_free: mem_refcnt(6848CD54)=
0 - mempool cleanup
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checksessionstate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checkifdone: Object: 0, Leg: 0
*Feb 4 03:26:28.807: //63/972590A48011/CCAPI/ccCallDisconnect:
  Cause Value=16, Tag=0x0, Call Entry(Previous Disconnect Cause=0, Disconnect Cause=0)
*Feb 4 03:26:28.807: //63/972590A48011/CCAPI/ccCallDisconnect:
  Cause Value=16, Call Entry(Responded=TRUE, Cause Value=16)

```

網關在ISDN端斷開呼叫

```
*Feb 4 03:26:28.807: ISDN Se3/0:23 Q931: TX -> DISCONNECT pd = 8 callref = 0x8099
Cause i = 0x8090 - Normal call clearing
*Feb 4 03:26:28.819: ISDN Se3/0:23 Q931: RX <- RELEASE pd = 8 callref = 0x0099
*Feb 4 03:26:28.819: ISDN Se3/0:23 Q931: TX -> RELEASE_COMP pd = 8 callref = 0x8099
```

網關斷開RTSP會話與ASR伺服器的連線

```
*Feb 4 03:26:28.823: //-1//RTSP:/rtspplib_send_teardown:
*Feb 4 03:26:28.823: #####
*Feb 4 03:26:28.823: Request
*Feb 4 03:26:28.823: TEARDOWN rtsp://10.86.177.39/recognizer RTSP/1.0
CSeq: 62
Session: 27b1560a_00000748_464c95e8_000b_0000
```

```
*Feb 4 03:26:28.975: //-1//RTSP:/rtsp_process_single_svr_resp:
*Feb 4 03:26:28.975: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 62
Session: 27b1560a_00000748_464c95e8_000b_0000
```

網關斷開RTSP會話與TTS伺服器的連線

```
*Feb 4 03:26:28.823: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:26:28.823: rtsp_partial_socket_send: (fd:0 len:111) 400 bytes of data:
TEARDOWN rtsp://10.86.177.39/synthesizer RTSP/1.0
CSeq: 63
Session: 27b1560a_00000748_464c95e8_000b_0000
```

```
*Feb 4 03:26:28.979: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 63
Session: 27b1560a_00000748_464c95e8_000b_0000
```

相關資訊

- [語音技術支援](#)
- [語音和整合通訊產品支援](#)
- [Cisco IP電話故障排除](#)
- [技術支援與文件 - Cisco Systems](#)