

使用MRCPv1 ASR/TTS的IOS语音XML网关到CVP呼叫流

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简介

语音可扩展标记语言(VXML)是万维网联盟(W3C)定义的标准。VXML旨在创建音频对话，提供合成语音、口语词的识别、DTMF数字的识别和口语音频的录音。VXML服务器和客户端使用公认的HTTP协议来交换VXML文档和页面。

思科语音门户(CVP)提供可通过电话访问的智能交互式语音应答(IVR)应用。有三种CVP配置类型：

- 独立服务
- CVP呼叫控制
- 呼叫队列和转接

合成语音、口语识别或DTMF数字功能由文本到语音(TTS)和自动语音识别(ASR)服务器提供。Cisco IOS® VXML网关使用媒体资源控制协议(MRCP)与TTS和ASR服务器通信。MRCP(RFC 4463)有两个版本，即MRCPv1(MRCP over RTSP)和MRCPv2(MRCP over SIP)。

本文档介绍在使用MRCPv1 TTS或ASR服务器的独立服务部署中Cisco IOS语音XML网关到CVP呼叫的呼叫流。在CVP VXML服务器上部署了一个药房应用示例。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- IOS VXML网关：思科AS5400XM、IOS 12.4(11)T2
- VXML服务器：CVP 4.0
- ASR/TTS服务器：Nuance ASR v8.5和TTS v4.0.6

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

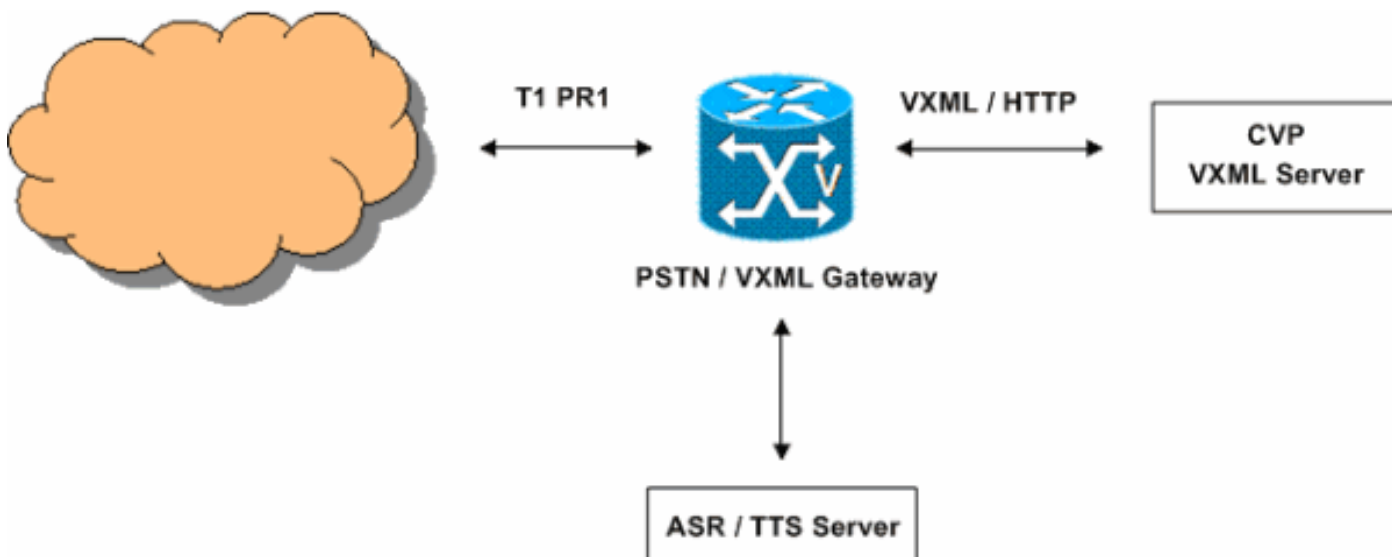
配置

本部分提供有关如何配置本文档所述功能的信息。

注意：使用[命令查找工具](#)(仅限注册客户)可查找有关本文档中使用的命令的详细信息。

网络图

本文档使用以下网络设置：



配置

本文档使用以下配置：

```
VXML网关配置
```

```
!--- 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. mrcp 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

此部分描述该的呼叫流从此配置示例的结果。

1. ISDN呼叫通过T1 PRI 3/0到达PSTN/VXML网关。
2. IOS网关将POTS拨号对等体1作为此呼叫的入站拨号对等体。
3. IOS网关将呼叫控制移交给与拨号对等体1关联的药房服务。
4. 与药房服务关联的CVP VXML/TCL脚本向VXML服务器发送HTTP GET请求。
5. VXML服务器返回200 OK响应。此响应包含VXML文档或页面。
6. IOS网关执行VXML文档。
7. 如果VXML文档为音频提示指定URL，IOS网关将下载音频文件并播放提示。
8. 如果VXML文档为音频提示指定了文本，IOS网关将与rtsp://10.86.177.39/synthesizer (TTS服务器)建立RTSP会话。建立RTSP会话后，网关和TTS服务器使用RTSP ANNOUNCE请求交换MRCP消息，例如SPEAK、SPEAK-COMPLETE。TTS服务器将G.711ulaw RTP音频流发送到RTSP设置请求的“传输”报头中网关提供的IP地址和UDP端口号。
9. 如果VXML文档指定网关识别DTMF数字和口语，IOS网关将与

rtsp://10.86.177.39/recognizer (ASR服务器) 建立RTSP会话。建立RTSP会话后，网关和ASR服务器使用RTSP ANNOUNCE请求交换MRCP消息，如DEFINE GRAMMAR、COMPLETE、RECOGNITE、RECOGNITION-COMPLETE。IOS VXML网关将G.711ulaw RTP音频流发送到RTSP 200 OK响应的SDP中ASR提供的IP地址和UDP端口号。IOS VXML网关将PSTN用户输入的数字作为RTP-NTE事件发送到ASR服务器。

10. 执行VXML文档后，网关发送HTTP POST请求（包含一组参数），如VXML文档或页面的<submit>标记中所指定。
11. 步骤6 - 10针对服务器发送的每个VXML文档。
12. 当VXML应用程序完成向调用方提供的服务时，它会发送一个VXML文档，该文档在<form>元素中仅包含<exit/>标记。
13. IOS网关断开与TTS和ASR服务器建立的MRCPv1会话。
14. IOS网关断开ISDN端的呼叫。

验证

使用本部分可确认配置能否正常运行。

[命令输出解释程序 \(仅限注册用户 \) \(OIT\) 支持某些 show 命令。](#) 使用 OIT 可查看对 show 命令输出的分析。

• 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
```

故障排除

使用本部分可排除配置故障。

调试命令

配置IOS网关，使其在日志记录缓冲区中记录调试并禁用日志记录控制台。

注意：在使用debug命令之前，请参阅有关Debug命令的重要信息。

这些命令用于配置网关，来将debug存储在网关的操作日志缓冲区中：

1. service timestamps debug datetime msec
2. 服务顺序
3. no logging console
4. logging buffered 5000000 debug
5. clear log

- 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

调试输出

此部分为此示例呼叫流提供debug输出：

1. [网关从PSTN接收传入呼叫](#)
2. [网关匹配入站拨号对等体1](#)
3. [呼叫转接至药房服务](#)
4. [呼叫在ISDN端接通](#)
5. [网关开始执行CVPServiceBootstrap.vxml VoiceXML脚本](#)
6. [网关向VXML服务器发送HTTP GET请求](#)
7. [网关从VXML服务器接收200 OK消息](#)
8. [网关向媒体服务器发送HTTP GET请求以下载Welcome-1.wav文件](#)
9. [网关从媒体服务器接收200 OK，并在HTTP消息正文中接收欢迎-1.wav的内容](#)

10. [网关向服务器发送HTTP POST请求，如VXML文档\(1\)的“提交”选项中所定义](#)
11. [网关收到200 OK的HTTP POST请求](#)
12. [网关发送VXML文档\(2\)的Submit选项中定义的HTTP POST请求](#)
13. [网关收到200 OK响应，以响应HTTP POST请求](#)
14. [网关创建用于DTMF/语音识别的语法](#)
15. [网关向ASR服务器发送RTSP SETUP请求](#)
16. [网关从ASR服务器接收200 OK响应](#)
17. [网关将MRCP“DEFINE-GRAMMAR”请求发送到嵌入在RTSP ANNOUNCE请求中的ASR服务器（此处仅显示一个请求）](#)
18. [网关收到200个COMPLETE响应，请求DEFINE-GRAMMAR](#)
19. [网关向ASR服务器发送MRCP“RECOGNISE”请求](#)
20. [ASR服务器向RECOGNITE请求发送IN-PROGRESS响应](#)
21. [网关完成Welcome-1.wav媒体文件的下载，向呼叫方播放提示并将其存储在缓存中](#)
22. [网关向TTS服务器发送RTSP SETUP请求](#)
23. [网关从TTS服务器接收RTSP设置请求的200 OK响应](#)
24. [网关向TTS服务器发送MRCP“SPEAK”请求，以播放“早上好，感谢您呼叫Audium药房”提示](#)
25. [TTS服务器发送SPEAK请求的“IN-PROGRESS”响应](#)
26. [播放提示后，TTS服务器向网关发送MRCP“SPEAK-COMPLETE”响应](#)
27. [ASR服务器检测语音开始并使用MRCP“START-OF-SPEECH”响应通知网关](#)
28. [网关向MRCP通告请求发送200 OK响应](#)
29. [ASR服务器识别“Refills”一词，并将MRCP“RECOGNITION-COMPLETE”消息发送到网关](#)
30. [在从ASR服务器收到成功识别通知后，VXML网关发送VXML文档\(2\)的SUBMIT标记中指定的HTTP POST请求](#)
31. [VXML服务器发送VXML页面以收集处方号、取件时间，并通知呼叫方处方准备好取件。网关通过与TTS和ASR服务器交互来执行这些页面（未显示调试输出）。](#)
32. [VXML服务器发送的最终VXML文档仅包含表单中的退出标记](#)
33. [网关终止VXML应用](#)
34. [网关断开ISDN端的呼叫](#)
35. [网关断开与ASR服务器建立的RTSP会话](#)
36. [网关断开与TTS服务器建立的RTSP会话](#)

来自PSTN的来电

```
*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-anipri=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
```

[入站拨号对等体1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
```

[呼叫转接至药房服务](#)

```
*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端接通](#)

```
*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:
```

[网关开始执行CVPSelfServiceBootstrap.vxml VoiceXML脚本](#)

```
*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)
```

[网关向VXML服务器发送HTTP GET请求](#)

```
*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
```

[网关从VXML服务器接收200 OK消息](#)

此响应的消息正文包含VXML文档(1)。 VXML文档告知网关播放媒体文件Welcome-1.wav，该文件位于媒体服务器中

```
*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>
```

[网关向媒体服务器发送HTTP GET请求以下载Welcome-1.wav文件](#)

```
*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
```

[网关从媒体服务器接收200 OK，并在HTTP消息正文中接收欢迎-1.wav的内容](#)

```
*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

[网关向服务器发送POST HTTP请求，如VXML文档\(1\)的“提交”选项中所定义](#)

*Feb 4 03:24:54.371: //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

[网关收到200 OK的POST HTTP请求](#)

消息正文包含VXML文档(2)。VXML文档告诉网关播放“早上好，感谢您致电Audium药房。

注意：此提示需要由文本到语音服务器合成。

*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>
```

[网关发送VXML文档\(2\)的Submit选项中定义的HTTP POST请求](#)

```
*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
```

[网关收到200 OK响应，以响应HTTP POST请求](#)

消息正文包含VXML文档(3)。此VXML文档定义了“菜单”提示，该提示告诉呼叫方输入1或说“重新填充”、输入2或说“药剂师”。提示由TTS服务器合成。输入（语音/dtmf）使用ASR进行识别。

```
*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" />
```

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.
```

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="
*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">Ge.

```

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>

```

[网关创建用于DTMF/语音识别的语法](#)

网关与ASR服务器建立RTSP会话后，这些语法将发送到ASR服务器。

```

*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:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_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
```

[网关向ASR服务器发送RTSP SETUP请求](#)

```
*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
```

[网关从ASR服务器接收200 OK响应](#)200 OK响应的SDP包含ASR服务器的IP地址和UDP端口号，网关需要将RTP数据包发送到这些端口。

```
*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
```

[网关将MRCP“DEFINE-GRAMMAR”请求发送到嵌入在RTSP通告请求中的ASR服务器](#) 此处仅显示一个请求：

```
*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">
```

[网关收到200个COMPLETE响应，请求DEFINE-GRAMMAR](#)

```
*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

[网关向ASR服务器发送MRCP“RECOGNISE”请求](#)

*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服务器向RECOGNITE请求发送IN-PROGRESS响应](#)

*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

网关完成Welcome-1.wav媒体文件的下载，向呼叫方播放提示并将其存储在缓存中

```
*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:
```

网关向TTS服务器发送RTSP SETUP请求

```
*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
```

网关从TTS服务器接收RTSP SETUP请求的200 OK响应

```
*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
```

网关向TTS服务器发送MRCP“SPEAK”请求，以播放“早上好，感谢您呼叫Audium药房”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服务器发送“IN-PROGRESS”响应以响应SPEAK请求

*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

播放提示后，TTS服务器向网关发送MRCP“SPEAK-COMplete”响应

*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服务器检测语音开始并使用START-OF-SPEECH响应通知网关

*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

网关向MRCP通告请求发送200 OK响应

*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服务器识别“Refills”一词，并向网关发送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-COMplete 17 COMPLETE MRCP/1.0

Completion-Cause: 000 success
Content-Type: application/x-mlsml
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
```

[在从ASR服务器收到成功识别通知后，VXML网关发送VXML文档\(2\)的SUBMIT标记中指定的HTTP POST请求](#)此POST请求通知VXML服务器用户已选择“重新填充”选项。

```
*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$$$initial_audio_group%5E%5E%5E4%7C%7C%7Cutterance$$$refills%5E%5E%5E26516%7C%7C%7Cinputmode$$$voice%5E%5E%5E26516%  
7C%7C%7Cinterpretation$$$refills%5E%5E%5E26516%7C%7C%7Cconfidence$$$0.55%5E%5E%5E26516&confidence=0.55&choice_fld=refills  
len 271maxage -1 maxstale -1  
*Feb 4 03:25:20.963: //63//AFW_:/vapp_bgpost: url=http://172.18.110.75:7000/CVP/Server;  
mime_type=application/x-www-form-urlencoded; len=271; iov_base=audium_vxmlLog=%7C%7C%  
7Caudio_group$$$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服务器发送的最后一个VXML文档仅包含表单中的退出标记这将告知网关终止VXML会话。
```

```
*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>

```

网关终止VXML应用

```

*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)

```

网关断开ISDN端的呼叫

*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

[网关断开与ASR服务器的RTSP会话](#)

*Feb 4 03:26:28.823: //-1//RTSP:/rtsplib_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

[网关断开与TTS服务器的RTSP会话](#)

*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

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