

使用MRCPv1 ASR/TTS的IOS语音XML网关到CVP呼叫流

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[Introduction](#)

语音扩展标记语言(VXML)是万维网联盟定义的标准(W3C)。VXML设计创建提供被综合的所说的话语音、DTMF位识别，讲话的音频识别和记录的音频对话。VXML服务器和客户端使用著名的HTTP协议交换VXML文件和页。

Cisco语音门户(CVP)提供可以在电话被获取的智能和交互语音应答(IVR)应用程序。有CVP配置的三种类型：

- 独立服务
- CVP呼叫控制
- 呼叫队列和转移

Text-to-Speech (TTS)和自动语音识别(ASR)服务器提供被综合的所说的话的语音、识别或DTMF位功能。使用媒体资源管理协议(MRCP)，Cisco IOS VXML网关与TTS和ASR服务器联络。有MRCP (RFC 4463)的两个版本即，MRCPv1 (在RTSP的MRCP)和MRCPv2 (在SIP的MRCP)。

本文在使用MRCPv1 TTS或ASR服务器的独立服务部署描述Cisco IOS语音XML网关的呼叫流对CVP呼叫。示例药房应用程序被实施了在CVP VXML服务器。

[Prerequisites](#)

[Requirements](#)

There are no specific requirements for this document.

Components Used

本文档中的信息基于以下软件和硬件版本：

- IOS VXML网关：Cisco AS5400XM，IOS 12.4(11)T2
- VXML服务器：CVP 4.0
- ASR/TTS服务器：细微差异ASR v8.5和TTS v4.0.6

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

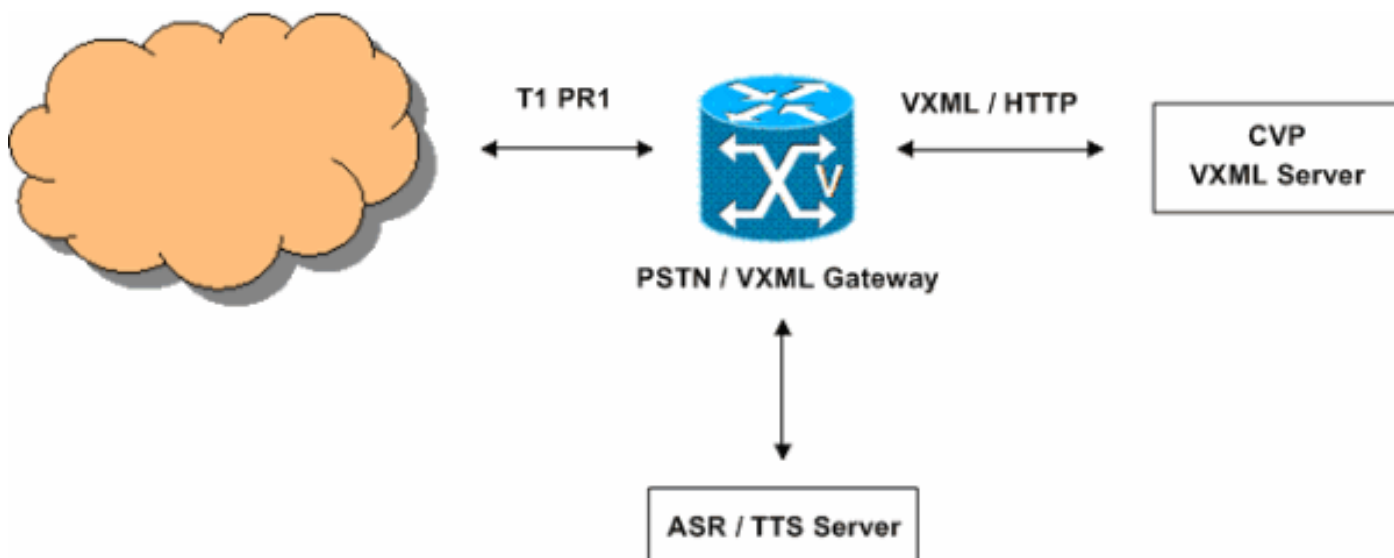
Configure

本部分提供有关如何配置本文档所述功能的信息。

Note: 有关本文档所用命令的详细信息，请使用[命令查找工具](#)（[仅限注册用户](#)）。

Network Diagram

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. !-
-- CVPPrimary 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 CVPPrimaryVXMLServer 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呼叫到达PSTN/在T1 PRI 3/0间的VXML Gateway。
2. IOS网关匹配POTS拨号点1作为此呼叫的入站拨号点。
3. IOS网关递交呼叫控制对被关联对拨号点1.的药房服务。
4. 与药房服务产生关联的CVP VXML/TCL写脚本发送一个HTTP GET请求到VXML服务器。
5. VXML服务器返回一种200 OK回应。此回应包含VXML文件或页。
6. IOS网关执行VXML文件。
7. 如果VXML文件为音频提示指定URL，IOS网关下载音象文件并且示出提示符。
8. 如果VXML文件为音频提示指定文本，IOS网关建立与rtsp://10.86.177.39/synthesizer (TTS服务器)的一个RTSP会话。在RTSP会话建立后，网关和TTS服务器交换MRCP消息例如讲话，通过使用RTSP的SPEAK-COMplete宣布请求。TTS服务器发送G.711ulaw RTP音象流到RTSP设置请求的“传输”报头的网关和UDP端口号提供的IP地址。

9. 如果VXML文件指定认可DTMF位和所说的话的网关，IOS网关建立与 rtsp://10.86.177.39/recognizer (ASR服务器)的一个RTSP会话。在RTSP会话建立后，网关和ASR服务器交换MRCP消息例如定义了语法，请完成，请识别，通过使用RTSP的 RECOGNITION-COMplete宣布请求。IOS VXML网关发送G.711ulaw RTP音象流到在 RTSP 200 OK回应的SDP的ASR和UDP端口号提供的IP地址。IOS VXML网关由PSTN用户发送输入的数字作为RTP-NTE事件到ASR服务器。
10. 在VXML文件以后的执行，网关在VXML文件或页的<submit>标记上指定发送一个HTTP POST请求(与一套参数)。
11. 第6步-第10步为服务器寄发的每个VXML文件发生。
12. 当VXML应用程序完成为呼叫人时提供的服务，寄发与一个<exit/>标记的一个VXML文件在 <form>元素内。
13. IOS网关断开用TTS和ASR服务器建立的MRCPv1会话。
14. IOS网关断开在ISDN边的呼叫。

Verify

Use this section to confirm that your configuration works properly.

[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
```

- **显示mrCP客户端会话激活详细资料**

```
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
```

[Troubleshoot](#)

使用本部分可排除配置故障。

[调试指令](#)

配置IOS网关记录在其日志缓冲器的调试和禁用记录控制台。

Note: 使用 `debug` 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

这些是用于的命令配置网关为了存储调试在网关的日志缓冲器：

1. `service timestamps debug datetime msec`
2. 服务顺序
3. `no logging console`
4. `logging buffered 5000000`调试
5. 清除日志

- `debug isdn q931`
- `debug voip ccapi inout`
- 调试voip应用程序vxml默认值
- 调试voip应用程序vxml转储
- `debug rtsp all`
- `debug mrpc`全部
- 调试http客户端全部
- `debug voip rtp`会话nte named-event

[调试输出](#)

此部分为此示例呼叫流提供调试输出：

1. [网关从PSTN收到一次呼入的呼叫](#)
2. [网关匹配入站拨号点1](#)
3. [呼叫被递交对药房服务](#)
4. [呼叫在ISDN边得到连接](#)
5. [网关开始CVPSelfServiceBootstrap.vxml VoiceXML脚本的执行](#)
6. [网关发送一个HTTP GET请求到VXML服务器](#)
7. [网关从VXML服务器收到一个200 OK消息](#)
8. [网关发送一个HTTP GET请求到媒体服务器下载Welcome-1.wav文件](#)

9. [网关从媒体服务器接受200 OK并且接受Welcome-1.wav的内容在HTTP消息正文的](#)
10. [网关发送一个HTTP POST请求到服务器如对定义“提交”VXML Document\(1\)的选项](#)
11. [网关接受200其HTTP POST请求的OK](#)
12. [网关发送一个HTTP POST请求如对VXML文件定义\(2\)的提交选项](#)
13. [网关收到HTTP POST请求的200 OK答复](#)
14. [网关创建将用于DTMF语法/语音识别](#)
15. [网关发送一个RTSP设置请求到ASR服务器](#)
16. [网关从ASR服务器收到200 OK答复](#)
17. [网关发送MRCP “DEFINE-GRAMMAR”请求到在RTSP内被嵌入的ASR服务器宣布请求\(一个请求显示得\[这里\]\(#\)\)](#)
18. [网关收到200其DEFINE-GRAMMAR请求的完全答复](#)
19. [网关发送MRCP “认可”请求到ASR服务器](#)
20. [ASR服务器发送对识别请求的进展中回应](#)
21. [网关在高速缓冲存储器完成Welcome-1.wav媒体文件下载，示出提示符给呼叫人并且存储它](#)
22. [网关发送一个RTSP设置请求到TTS服务器](#)
23. [网关从RTSP设置请求的TTS服务器收到200 OK答复](#)
24. [网关发送MRCP “与TTS服务器讲”请求示出“早上好和感谢您呼叫Audium药房”提示符](#)
25. [TTS服务器发送“讲请求的进展中”回应](#)
26. [在提示被演奏后，TTS服务器发送MRCP “对网关的SPEAK-COMLETE”回应](#)
27. [使用MRCP “START-OF-SPEECH”回应，ASR服务器发现语音开始并且通知网关](#)
28. [网关发送对MRCP的200 OK回应宣布请求](#)
29. [ASR服务器认可词“重新装满”并且传送MRCP “RECOGNITION-COMLETE”信息到网关](#)
30. [在接收一个成功的识别通知以后从ASR服务器，VXML网关在VXML文件上指定发送一个HTTP POST请求\(2\)的提交标记](#)
31. [VXML服务器发送收集的处方编号VXML页，运送时间和通知呼叫人处方准备好装货。网关通过呼应执行这些页与TTS和ASR服务器\(没显示的调试输出\)。](#)
32. [VXML服务器寄发的最终VXML文件包含退出标记以形式](#)
33. [网关终止VXML应用程序](#)
34. [网关断开在ISDN边的呼叫](#)
35. [网关断开用ASR服务器建立的RTSP会话](#)
36. [网关断开用TTS服务器建立的RTSP会话](#)

[从PSTN的呼入的呼叫](#)

```
*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
```

[入站拨号点1被匹配](#)

```
*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
```

[呼叫被递交对药房服务](#)

```
*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边得到连接](#)

```
*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CVPSelfServiceBootstrap.vxml VoiceXML脚本的执行](#)

```
*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)
```

[网关发送HTTP GET请求到VXML服务器](#)

```
*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服务器收到200 OK消息](#)

此回应消息正文包含一个VXML文件(1)。VXML文件通知网关演奏媒体文件位于媒体服务器的告诉的Welcome-1.wav

```
*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>
```

[网关发送HTTP GET请求到媒体服务器下载Welcome-1.wav文件](#)

```
*Feb 4 03:24:54.371: //63//HTTPC:/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受200 OK并且接受Welcome-1.wav的内容在HTTP消息正文的](#)

```
*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

[网关发送POST HTTP请求到服务器如对定义“提交”VXML Document\(1\)的选项](#)

```
*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
```

[网关接受200其POST HTTP请求的OK](#)

消息正文包含一个VXML文件(2)。VXML文件通知网关演奏“早上好和感谢您呼叫Audium药房。

Note: 此提示需要由一个文本到语音服务器综合。

```
*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>  
<prompt bargein="true">Good morning and thank you for calling Audium pharmacy.</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>
```

[网关发送HTTP POST请求如对VXML文件定义\(2\)的提交选项](#)

```
*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HTTP POST请求的200 OK答复](#)

消息正文包含VXML文件(3)。此VXML文件定义了告诉呼叫人输入1或说替换物，输入2或说药剂师的一个菜单提示。提示由TTS服务器综合。输入(语音/DTMF)使用ASR，被认可。

```
*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" />
  <prompt bargein="true">Say refills or press 1.
```

Or.

```
Say pharmacist or press 2.</prompt>
<catch event="nomatch">
  <prompt bargein="true">Sorry.
```

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">Ge.
```

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" />
      <prompt bargein="true">Say refills or press 1.
```

Or.

```
Say pharmacist or press 2.</prompt>
<catch event="nomatch">
  <prompt bargein="true">Sorry.
```

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>
<option value="refills" dtmf="1">prescription</option>
<option value="refills">refills</option>
<option value="refills">prescription refills</option>
<option value="refills">refill my prescription</option>
<option value="refills">I want to refill my prescription</option>
<option value="refills">refills please</option>
<option value="Pharmacist" dtmf="2">Pharmacist</option>
<option value="Pharmacist">I want to speak to a pharmacist</option>
<option value="Pharmacist">pharmacist please</option>
<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" />
    <submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog confidence choice fld" />
</filled>
</field>
</form>
</vxml>

```

[网关创建将用于DTMF语法/语音识别](#)

一旦网关建立一个RTSP会话用ASR服务器，这些语法然后被发送到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:/mrpc_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" xmlns="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:/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: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" xmlns="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" xmlns="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" xmlns="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" xmlns="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:/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: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:/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 03:24:54.451: //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:/mrpc_add_param: param: Content-Base:

*Feb 4 03:24:54.451: //-1//MRCP:/mrpc_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:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_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:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_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>
 <item>agent</item>
 <item>pharmacist</item>
 </one-of>
 </rule>
 </grammar>
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_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>
 <item>agent</item>
 <item>pharmacist</item>
 </one-of>
 </rule>
 </grammar>
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_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" xmln

```
s="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:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_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
```

[网关发送RTSP设置请求到ASR服务器](#)

```
*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服务器收到200 OK答复](#)

200 OK回应的SDP包含网关需要发送RTP信息包的ASR服务器IP地址和UDP端口号。

```
*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
```

[网关发送MRCP“DEFINE-GRAMMAR”请求到在RTSP内被嵌入的ASR服务器宣布请求](#)

仅一个请求显示得这里：

```
*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:
<?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"> prescription</rule></grammar>
```

[网关收到200其DEFINE-GRAMMAR请求的完全答复](#)

```
*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
```

[网关发送MRCP“认可”请求到ASR服务器](#)

```
*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服务器发送对识别请求的进展中回应

*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

网关在高速缓冲存储器完成Welcome-1.wav媒体文件下载，示出提示符给呼叫人并且存储它

*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:

网关发送RTSP设置请求到TTS服务器

*Feb 4 03:25:07.811: //-1//RTSP:/rtsplib_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RTSP设置请求的TTS服务器收到200 OK答复

*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

网关发送MRCP“与TTS服务器讲”请求示出“早上好和感谢您呼叫Audium药房”提示符

*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:
<?xml version="1.0" encoding="UTF-8"?>< speak> Good morning and thank you for calling Audium pharmacy.</ speak>

TTS服务器发送“进展中”回应为讲请求

*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

在提示被演奏后，TTS服务器发送MRCP“对网关的SPEAK-COMplete”回应

*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

使用START-OF-SPEECH回应，ASR服务器发现语音开始并且通知网关

*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

网关发送对MRCP的200 OK回应宣布请求

*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服务器认可词“重新装满”并且传送MRCP“RECOGNITION-COMplete”信息到网关

*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
```

[在接收成功的识别通知以后从ASR服务器，VXML网关在VXML文件上指定发送HTTP POST请求\(2\)的提交标记](#)

此POST请求通知VXML服务器用户选择了“重新装满”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$$$initial_audio_group%5E%5
E%5E4%7C%7C%7Cutterance$$$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//HTTTPC:/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服务器寄发的最后VXML文件包含退出标记以形式](#)

这通知网关终止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应用程序](#)

```

*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)
```

[网关断开在ISDN边的呼叫](#)

```
*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RTSP会话用ASR服务器](#)

```
*Feb 4 03:26:28.823: //-1//RTSP:/rtsplib_send_tearardown:
*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RTSP会话用TTS服务器](#)

```
*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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- [语音技术支持](#)
- [语音和统一通信产品支持](#)
- [Cisco IP 电话故障排除](#)

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