

# 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，发言的音频识别和录音的音频对话。VXML服务器和客户端使用著名的HTTP协议交换VXML文档和页。

思科语音门户(CVP)提供可以在电话访问的智能和交互语音应答(IVR)应用程序。有三种CVP配置类型：

- 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。使用梅迪亚资源控制协议(MRCP)，Cisco IOS VXML网关与TTS和ASR服务器联络。有两个版本MRCP (RFC 4463)即，MRCPv1 (在RTSP的MRCP)和MRCPv2 (在SIP的MRCP)。

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

## 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：细微差异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：**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](#)）。

## 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. !-
-- 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. mrpc client rtpsetup enable !--- Specify the
maximum memory size for the HTTP Client Cache. http
client cache memory pool 15000 !--- Specify the maximum
number of file that can be stored in the HTTP Client
Cache. http client cache memory file 500 !--- Disable
Persistent HTTP Connections. no http client connection
persistent !--- Configure the T1 PRI. controller T1 3/0
framing esf linecode b8zs pri-group timeslots 1-24 !---
Configure the ISDN switch type and incoming-voice under
the D-channel interface. interface Serial3/0:23 no ip
address encapsulation hdlc isdn switch-type primary-net5
isdn incoming-voice modem no cdp enable !--- Configure a
POTS dial-peer that will be used as the inbound dial-
peer for calls coming !--- in across the T1 PRI line.
The "pharmacy" service is applied under this dial-peer.
dial-peer voice 1 pots service pharmacy destination-
pattern 5555 direct-inward-dial port 3/0:D forward-
digits all
```

## 呼叫流示例

此部分描述该的呼叫流从此配置示例的结果。

1. ISDN呼叫到达在PSTN/在T1PRI 3/0间的VXML Gateway。
2. IOS网关匹配POTS拨号对等1作为此呼叫的呼入拨号对端。
3. IOS网关递交呼叫控制对关联给dial-peer 1.的药房服务。
4. CVP VXML/TCL写脚本关联与药房服务发送HTTP GET请求到VXML服务器。
5. VXML服务器返回—200 OK答复。此答复包含VXML文档或页。
6. IOS网关执行VXML文档。
7. 如果VXML文档指定音频提示的URL，IOS网关下载音频文件并且示出提示符。
8. 如果VXML文档指定音频提示的一个文本，IOS网关建立有rtsp://10.86.177.39/synthesizer的(TTS服务器)一个RTSP会话。在RTSP会话建立后，网关和TTS服务器交换MRCP消息例如发言，SPEAK-COMplete通过使用RTSP宣布请求。TTS服务器发送G.711ulaw RTP音频流到在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文档指定认可DTMF位和所说的话的网关，IOS网关建立有rtsp://10.86.177.39/recognizer的(ASR服务器)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，完成，识别，RECOGNITION-COMplete通过使用RTSP宣布请求。IOS VXML网关发送G.711ulaw RTP音频流到在RTSP 200 OK答复的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文档的执行，网关在VXML文档或页的<submit>标记上指定发送HTTP POST请求(与一套参数)后。
11. 步骤6 – 10为服务器寄发的每个VXML文档发生。
12. 当VXML应用程序完成为呼叫方时提供的服务，寄发与—<exit/>标记的一个VXML文档在<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侧的呼叫。

## 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
```

- **显示mrpc客户端会话活动详细信息**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。

## debug 命令

配置IOS网关记录在其操作日志缓冲区的调试和禁用logging console。

**注意：** 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
- 调试voip应用程序vxml默认
- 调试voip应用程序vxml转储
- debug rtsp all
- debug mrcp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debug输出：

1. [网关收到从PSTN的一呼入呼叫](#)
2. [网关匹配呼入拨号对端1](#)
3. [呼叫被递交对药房服务](#)
4. [呼叫在ISDN侧得到连接](#)
5. [网关开始CVPSelfServiceBootstrap.vxml VoiceXML脚本的执行](#)
6. [网关发送HTTP GET请求到VXML服务器](#)
7. [网关收到从VXML服务器的一个200 OK消息](#)
8. [网关发送HTTP GET请求对媒体服务器下载Welcome-1.wav文件](#)
9. [网关在HTTP消息主题中接收从媒体服务器的200 OK并且接收Welcome-1.wav的内容](#)
10. [网关发送HTTP POST请求到服务器如对定义“提交” VXML Document\(1\)的选项](#)
11. [网关接收200其HTTP POST请求的OK](#)
12. [网关发送HTTP POST请求如对VXML文档定义\(2\)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RTSP设置请求到ASR服务器](#)
16. [网关收到从ASR服务器的200 OK答复](#)
17. [网关发送MRCP “对在RTSP内被嵌入的ASR服务器的DEFINE-GRAMMAR”请求宣布请求\(一  
请求显示此处\)](#)
18. [其DEFINE-GRAMMAR请求的网关接收200完整答复](#)
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程中答复](#)
21. [网关完成Welcome-1.wav媒体文件下载，示出提示符给呼叫方并且在缓存存储它](#)
22. [网关发送RTSP设置请求到TTS服务器](#)
23. [网关收到从TTS服务器的200 OK答复RTSP设置请求的](#)
24. [网关发送MRCP “发言”请求对TTS服务器播放“早上好并且感谢您呼叫Audium药房”提示符](#)
25. [TTS服务器发送“发言请求的进程中”答复](#)
26. [在提示符播放后，TTS服务器发送MRCP “对网关的SPEAK-COMLETE”答复](#)
27. [使用MRCP “START-OF-SPEECH”答复，ASR服务器检测语音开始并且通知网关](#)
28. [网关发送200对MRCP的OK答复宣布请求](#)

29. [ASR服务器认可词“重新装满”并且传送MRCP “RECOGNITION-COMplete”信息到网关](#)
30. [在接收从ASR服务器的一个成功的识别通知以后，VXML网关在VXML文档上指定发送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，并且通知呼叫方处方将是为pickup请准备。网关通过呼应执行这些页与TTS和ASR服务器(没显示的debug输出)。
32. [VXML服务器寄发的最终VXML文档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侧的呼叫](#)
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-rdnssi=-1
  cisco-redirectreason=-1 fwd_final_type =0
  final_redirectNumber =
  hunt_group_timeout =0
```

## [呼入拨号对端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侧得到连接

```
*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
```

### [网关收到从VXML服务器的200 OK消息](#)

此答复消息主题包含VXML文档(1)。VXML文档告诉网关播放媒体文件在媒体服务器查找的呼叫的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 + '|||audium_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请求对媒体服务器下载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
```

### [网关在HTTP消息主题中接收从媒体服务器的200 OK并且接收Welcome-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
```

### [网关接收200其POST HTTP请求的OK](#)

消息主题包含VXML文档(2)。VXML文档告诉网关播放“早上好并且感谢您呼叫Audium药房。

**注意：**此提示符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文档定义\(2\)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

消息主题包含VXML文档(3)。此VXML文档定义了告诉呼叫方输入1或说替换物，输入2或说药剂师的菜单提示符。提示符由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$$$' + 'nomatch_audio_group' + '^'^
+ application.getElapsedTime(audium_element_start_time_millisecs)" /> </catch> <catch
event="nomatch" count="3"> <prompt bargein="true">Gee. Looks like we are having some
trouble.</prompt> <assign name="audium_vxmlLog" expr="audium_vxmlLog + ' |||nomatch$$$' + '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//HTTPC:/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=40000000 *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.getElapsed 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.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||audio\_group\$\$\$' + 'nomatch\_audio\_group' + '^'^ + application.getElapsed sedTime(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.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||audio\_group\$\$\$' + 'nomatch\_audio\_group' + '^'^ + application.getElapsed sedTime(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.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||audio\_group\$\$\$' + 'nomatch\_audio\_group' + '^'^ + application.getElapsed sedTime(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.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||audio\_group\$\$\$' + 'noinput\_audio\_group' + '^'^ + application.getElapsed sedTime(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.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||audio\_group\$\$\$' + 'noinput\_audio\_group' + '^'^ + application.getElapsed sedTime(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.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||audio\_group\$\$\$' + 'noinput\_audio\_group' + '^'^ + application.getElapsed sedTime(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.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||inputmode\$\$\$' + choice fld\$.inputmode + '^'^ + application.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||interpretation\$\$\$' + choice fld + '^'^ + application.getElapsed sedTime(audium\_element\_start\_time\_millisecs)" /> <assign name="audium\_vxmlLog" expr="audium\_vxmlLog + '|||confidence\$\$\$' + choice fld\$.confidence + '^'^ + application.getElapsed sedTime(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" xmlns 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" xmlns 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:/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: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 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:/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: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 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:/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: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></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: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" xmlns="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:/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: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" xmlns="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" xmlns="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" xmlns="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" xmlns="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" xmlns="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>
<item>agent</item> <item>pharmacist</item> </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>
<item>agent</item> <item>pharmacist</item> </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
```

## [网关收到从ASR服务器的200 OK答复](#)

200 OK答复的SDP包含网关需要发送RTP数据包的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 “对在RTSP内被嵌入的ASR服务器的DEFINE-GRAMMAR”请求宣布请求](#)

仅一请求显示此处：

```
*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>
```

## [其DEFINE-GRAMMAR请求的网关接收200完整答复](#)

```
*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答复

```
*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媒体文件下载，示出提示符给呼叫方并且在缓存存储它

```
*Feb 4 03:25:07.811: //63//HTTTPC:/httpc_is_cached: HTTPC_FILE_IS_CACHED *Feb 4 03:25:07.811:
//-1//HTTTPC:/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:/rtsp_lib_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
```

## 网关收到从TTS服务器的200 OK答复RTSP设置请求的

```
*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“发言”请求对TTS服务器播放“早上好并且感谢您呼叫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“SPEAK请求的进展中”答复

```
*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
```

## 在提示符播放后，TTS服务器发送MRCP“对网关的SPEAK-COMplete”答复

```
*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答复，ASR服务器检测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200对MRCP的OK答复宣布请求

```
*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-COMPLETE 17 COMPLETE MRCP/1.0 Completion-Cause: 000 success Content-Type:
application/x-nlsm 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
```

## 在接收从ASR服务器的成功的识别通知以后，VXML网关在VXML文档上指定发送HTTP POST请求(2)的提交标记

此POST请求通知VXML服务器用户选择“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//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服务器寄发的最后VXML文档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侧的呼叫](#)

```
*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_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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