

IOS Voice XML Gateway para fluxo de chamada CVP usando MRCPv1 ASR / TTS

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Introduction

Voice Extensible Markup Language (VXML) é um padrão definido pelo World Wide Web Consortium (W3C). O VXML foi projetado para criar diálogos de áudio que fornecem fala sintetizada, reconhecimento de palavras faladas, reconhecimento de dígitos DTMF e gravações de áudio falado. O servidor VXML e os clientes usam o protocolo HTTP conhecido para trocar documentos e páginas VXML.

O Cisco Voice Portal (CVP) oferece aplicativos inteligentes e interativos de resposta de voz (IVR) que podem ser acessados pelo telefone. Há três tipos de implementações CVP:

- Serviço independente
- Controle de chamada CVP
- Fila e transferência de chamadas

A fala sintetizada, o reconhecimento de palavras faladas ou as funcionalidades de dígito DTMF são fornecidos por servidores de Texto para Voz (TTS - Text-to-Speech) e de Reconhecimento Automático de Voz (ASR - Automatic Speech Recognition). O Cisco IOS® VXML Gateway se comunica com os servidores TTS e ASR usando o protocolo de controle de recursos de mídia (MRCP). Há duas versões de MRCP (RFC 4463), nomeadamente MRCPv1 (MRCP sobre RTSP) e MRCPv2 (MRCP sobre SIP).

Este documento descreve o fluxo de chamadas de um gateway XML de voz do Cisco IOS para chamada CVP em uma implantação de serviço independente que usa servidores TTS ou ASR

MRCPv1. Um exemplo de aplicativo de farmácia foi implantado no servidor VXML do CVP.

Prerequisites

Requirements

Não existem requisitos específicos para este documento.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Gateway VXML do IOS: Cisco AS5400XM, IOS 12.4(11)T2
- Servidor VXML: CVP 4.0
- Servidor ASR / TTS: Nuance ASR v8.5 e 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

Consulte as [Convenções de Dicas Técnicas da Cisco para obter mais informações sobre convenções de documentos.](#)

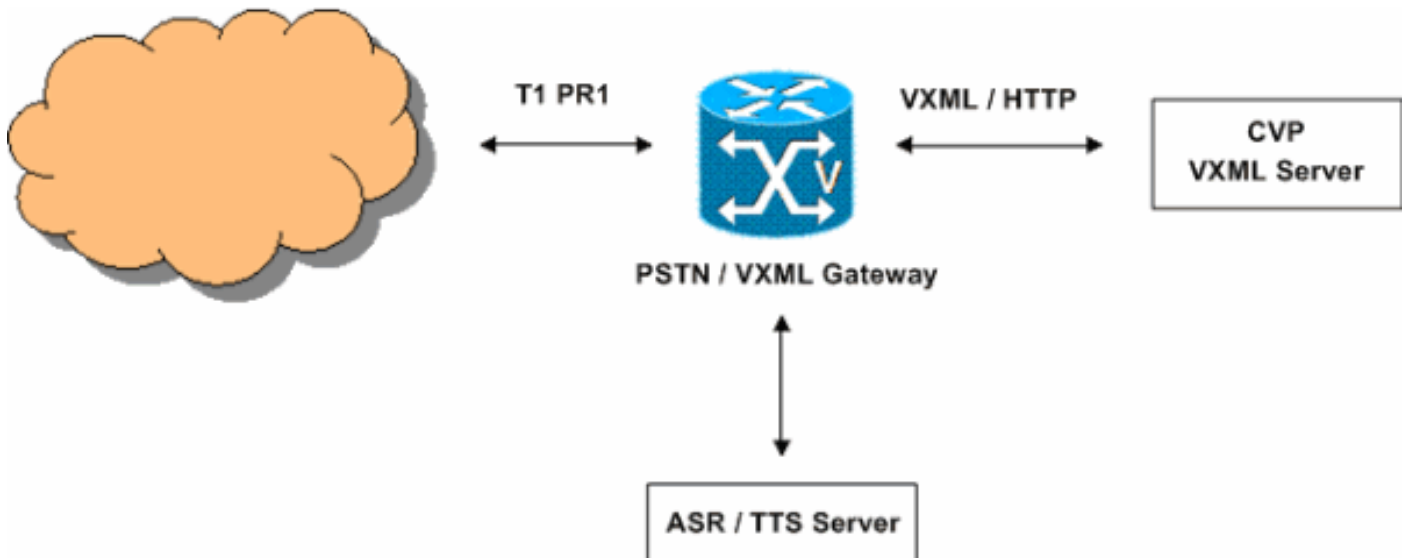
Configurar

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

Nota: Use a Command Lookup Tool (somente clientes registrados) para obter mais informações sobre os comandos usados neste documento.

Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:



Configurações

Este documento utiliza esta configuração:

Configuração do gateway VXML

```

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

```

```
POTS dial-peer that will be used as the inbound dial-  
peer for calls coming !--- in across the T1 PRI line.  
The "pharmacy" service is applied under this dial-peer.  
dial-peer voice 1 pots service pharmacy destination-  
pattern 5555 direct-inward-dial port 3/0:D forward-  
digits all
```

Exemplo de fluxo de chamada

Esta seção descreve o fluxo de chamada que resulta deste exemplo de configuração.

1. Uma chamada ISDN chega ao gateway PSTN / VXML através do T1 PRI 3/0.
2. O IOS Gateway corresponde ao peer de discagem POTS 1 como o peer de discagem de entrada para esta chamada.
3. O IOS Gateway transfere o controle de chamada para o serviço de farmácia associado ao dial-peer 1.
4. O script VXML / TCL do CVP associado ao serviço Pharmacy envia uma solicitação HTTP GET ao servidor VXML.
5. O servidor VXML retorna uma resposta 200 OK. Esta resposta contém um documento ou página VXML.
6. O IOS Gateway executa o documento VXML.
7. Se o documento VXML especificar um URL para um prompt de áudio, o IOS Gateway baixará o arquivo de áudio e reproduzirá o prompt.
8. Se o documento VXML especificar um Texto para um prompt de áudio, o IOS Gateway estabelece uma sessão RTSP com `rtsp://10.86.177.39/synthesizer` (Servidor TTS). Depois que a sessão RTSP é estabelecida, o Gateway e o Servidor TTS trocam mensagens de MRCP como SPEAK, SPEAK-COMPLETE usando a solicitação RTSP ANNOUNCE. O Servidor TTS envia o fluxo de áudio RTP G.711ulaw para o endereço IP e o número da porta UDP fornecidos pelo Gateway no cabeçalho "Transporte" da solicitação RTSP SETUP.
9. Se o documento VXML especificar o Gateway para reconhecer dígitos DTMF e palavras faladas, o IOS Gateway estabelece uma sessão RTSP com `rtsp://10.86.177.39/recognizer` (servidor ASR). Depois que a sessão RTSP é estabelecida, o Gateway e o servidor ASR trocam mensagens de MRCP como DEFINE GRAMMAR, COMPLETE, RECOGNIZE, RECOGNITION-COMPLETE usando a solicitação RTSP ANNOUNCE. O IOS VXML Gateway envia o fluxo de áudio de RTP G.711ulaw para o endereço IP e o número da porta UDP fornecidos pelo ASR no SDP da resposta RTSP 200 OK. O IOS VXML Gateway envia os dígitos inseridos pelo usuário PSTN como eventos RTP-NTE para o servidor ASR.
10. Após a execução do documento VXML, o Gateway envia uma solicitação HTTP POST (com um conjunto de parâmetros) conforme especificado na marca <Submeter> do documento ou página VXML.
11. As etapas 6 a 10 ocorrem para cada documento VXML enviado pelo servidor.
12. Quando o aplicativo VXML finaliza o serviço fornecido ao chamador, ele envia um documento VXML com apenas uma marca <exit/> no elemento <form>.
13. O IOS Gateway desconecta as sessões de MRCPv1 estabelecidas com os servidores TTS e ASR.
14. O IOS Gateway desconecta a chamada no lado ISDN.

Verificar

Use esta seção para confirmar se a sua configuração funciona corretamente.

A [Output Interpreter Tool \(somente clientes registrados\) \(OIT\)](#) oferece suporte a determinados comandos show. Use a OIT para exibir uma análise da saída do comando show.

- **show call active voice brief**

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

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

- **show mrcp client session active detail**

No Of Active MRCP Sessions: 1

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

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

#####

- **show voip rtp connections**

VoIP RTP active connections :

No.	CallId	dstCallId	LocalRTP	RmtRTP	LocalIP	RemoteIP
1	66	63	17704	1224	172.18.110.77	10.86.177.39

- **show http client cache**

HTTP Client cached information

=====

Maximum memory pool allowed for HTTP Client caching = 15000 K-bytes

Maximum file size allowed for caching = 500 K-bytes

Total memory used up for Cache = 410 Bytes

Message response timeout = 10 secs

Total cached entries = 1

Total non-cached entries = 0

Cached entries

=====

entry 114, 1 entries

Ref	FreshTime	Age	Size	context
-----	-----------	-----	------	---------

---	-----	---	----	-----
-----	-------	-----	------	-------

1	119524	31	1271	0
---	--------	----	------	---

url: http://172.18.110.75/Welcome-1.wav

[Troubleshoot](#)

Use esta seção para resolver problemas de configuração.

[Comandos debug](#)

Configure o IOS Gateway para registrar as depurações em seu buffer de registro e desabilitar o console de registro.

Nota: Consulte Informações Importantes sobre Comandos de Depuração antes de usar comandos debug.

Estes são os comandos usados para configurar o Gateway para armazenar as depurações no buffer de registro do Gateway:

1. `service timestamps debug datetime msec`
2. `sequência de serviço`
3. `no logging console`
4. `logging buffered 500000 debug`
5. `clear log`

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

Saídas de depuração

Esta seção fornece saídas de depuração para este fluxo de chamada de exemplo:

1. [O gateway recebe uma chamada do PSTN](#)
2. [O gateway corresponde ao correspondente de discagem de entrada 1](#)
3. [A chamada é entregue ao Serviço de Farmácia](#)
4. [A chamada é conectada no lado ISDN](#)
5. [O gateway inicia a execução do script CVPSelfServiceBootstrap.vxml VoiceXML](#)
6. [O Gateway envia uma solicitação HTTP GET ao VXML Server](#)
7. [O Gateway recebe uma mensagem 200 OK do VXML Server](#)
8. [O Gateway envia uma Solicitação HTTP GET ao Servidor de Mídia para baixar o arquivo Welcome-1.wav](#)
9. [O Gateway recebe um 200 OK do Servidor de Mídia e recebe o conteúdo de Welcome-1.wav no corpo da Mensagem HTTP](#)
10. [O Gateway envia uma Solicitação de POST HTTP para o Servidor conforme definido na opção "Enviar" do Documento VXML \(1\)](#)
11. [O gateway recebe 200 OK para sua solicitação de POST HTTP](#)
12. [O Gateway envia uma solicitação HTTP POST conforme definido na opção Submit \(Enviar\) do documento VXML \(2\)](#)
13. [O gateway recebe resposta 200 OK para a solicitação HTTP POST](#)
14. [O gateway cria os Grammars a serem usados para reconhecimento de DTMF / Fala](#)
15. [O Gateway envia uma solicitação RTSP SETUP ao Servidor ASR](#)
16. [O Gateway recebe uma resposta 200 OK do Servidor ASR](#)
17. [O Gateway envia a solicitação "DEFINE-GRAMMAR" do MRCP ao servidor ASR incorporado na solicitação de ANOUNCE do RTSP \(apenas uma solicitação é mostrada aqui\)](#)
18. [O Gateway recebe 200 respostas COMPLETAS para sua solicitação DEFINE-GRAMMAR](#)

19. [O gateway envia a solicitação "RECONHECIMENTO" de MRCP ao servidor ASR](#)
20. [O servidor ASR envia resposta IN-PROGRESS para a solicitação RECOGNIZE](#)
21. [O gateway conclui o download do arquivo de mídia Welcome-1.wav, reproduz o prompt para o chamador e o armazena no cache](#)
22. [O Gateway envia uma solicitação RTSP SETUP ao servidor TTS](#)
23. [O Gateway recebe uma resposta 200 OK do servidor TTS para a solicitação de configuração RTSP](#)
24. [O Gateway envia a solicitação "SPEAK" do MRCP ao Servidor TTS para reproduzir o prompt "Bom dia e obrigado por ligar para a farmácia de áudio"](#)
25. [O Servidor TTS envia resposta "EM ANDAMENTO" para a solicitação SPEAK](#)
26. [Após a reprodução do prompt, o Servidor TTS envia a resposta "SPEAK-COMPLETE" do MRCP ao Gateway](#)
27. [O servidor ASR detecta o início da fala e notifica o Gateway usando a resposta "START-OF-SPEECH" do MRCP](#)
28. [O Gateway envia resposta 200 OK para solicitação de Anúncio de MRCP](#)
29. [O ASR Server reconhece a palavra "Refills" e envia a mensagem "RECOGNITION-COMPLETE" do MRCP ao Gateway](#)
30. [Após receber uma notificação de reconhecimento bem-sucedida do servidor ASR, o Gateway VXML envia uma solicitação HTTP POST conforme especificado na tag SUBMIT do documento VXML \(2\)](#)
31. O servidor VXML envia páginas VXML para coletar o número da receita, o tempo de coleta e informar ao chamador que a receita estará pronta para coleta. O gateway executa essas páginas interagindo com o TTS e o servidor ASR (saídas de depuração não exibidas).
32. [O documento VXML final enviado pelo servidor VXML contém apenas a marca de saída no formulário](#)
33. [O gateway encerra o aplicativo VXML](#)
34. [O gateway desconecta a chamada no lado ISDN](#)
35. [O gateway desconecta a sessão RTSP estabelecida com o servidor ASR](#)
36. [O gateway desconecta a sessão RTSP estabelecida com o Servidor TTS](#)

Chamada recebida do PSTN

```
*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
```

[O correspondente de discagem de entrada 1 é correspondente](#)

```
*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
```

[A chamada é entregue ao Serviço de Farmácia](#)

```
*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
```

[A chamada é conectada no lado ISDN](#)

```
*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:
```

[O gateway inicia a execução do script CVPSelfServiceBootstrap.vxml VoiceXML](#)

```
*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)

```

[O Gateway envia uma solicitação HTTP GET ao VXML Server](#)

```

*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

```

[O Gateway recebe uma mensagem 200 OK do VXML Server](#)

O corpo da mensagem desta resposta contém um documento VXML (1). O documento VXML diz ao Gateway para reproduzir o arquivo de mídia chamado Welcome-1.wav localizado em um Servidor de mídia

```

*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>
```

[O Gateway envia uma Solicitação HTTP GET ao Servidor de Mídia para baixar o arquivo Welcome-1.wav](#)

```
*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
```

[O Gateway recebe um 200 OK do Servidor de Mídia e recebe o conteúdo de Welcome-1.wav no corpo da Mensagem HTTP](#)

```
*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

[O Gateway envia uma Solicitação HTTP POST ao Servidor conforme definido na opção "Enviar" do Documento VXML\(1\)](#)

```
*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
```

[O gateway recebe 200 OK para sua solicitação POST HTTP](#)

O corpo da mensagem contém um documento VXML (2). O documento VXML instrui o Gateway a reproduzir "Bom dia e obrigado por ligar para a farmácia de sódio.

Observação: esse prompt precisa ser sintetizado por um Servidor de texto a voz.

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

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

```
<form id="start">
  <block>

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

[O Gateway envia uma solicitação HTTP POST conforme definido na opção Submit \(Enviar\) do documento VXML \(2\)](#)

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

[O gateway recebe resposta 200 OK para a solicitação HTTP POST](#)

O corpo da mensagem contém o documento VXML (3). Este documento VXML define um prompt do Menu que instrui o chamador a inserir 1 ou dizer Refills, enter 2 ou say farmacêutica. Os prompts são sintetizados por um Servidor TTS. As entradas (fala / dtmf) são reconhecidas usando um ASR.

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

*Feb 4 03:24:54.415: body:
*Feb 4 03:24:54.415: ... Buffer too large - truncated to (4096) len.
*Feb 4 03:24:54.415: <?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&
calling_into=GoodPrescriptionRefillApp7" xml:lang="en-us">
  <property name="timeout" value="60s" />
```

```

<property name="confidencelevel" value="0.40" />
<form id="audium_start_form">
  <block>
    <assign name="audium_vxmlLog" expr="" />
    <assign name="audium_element_start_time_millisecs" expr="new Date().getTime()" />
    <goto next="#start" />
  </block>
</form>
<form id="start">
  <block>
    <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" />
    <goto nextitem="choice_fld" />
  </block>
  <field name="choice_fld" modal="false">
    <property name="inputmodes" value="dtmf voice" />
  </field>
</form>

```

Or.

Say pharmacist or press 2.

I did not understand that.

Say refills or press 1.

Say pharmacist or press 2.

```

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

```

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

```

  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '2' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
  <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +

```

```
'nomatch_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
</catch>
<catch event="nomatch" count="3">
  <prompt bargein="true">Gee.
```

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

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

I did not hear that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

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

I still did not hear that.

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

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

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

```
<assign name="audium_vxmlLog" expr="
*Feb 4 03:24:54.435:
*Feb 4 03:24:54.435: //63//AFW_:/vapp_bgpost_done: status=http OK
*Feb 4 03:24:54.435: //63//HTTTPC:/httpc_socket_cleanup: fd=-1, bytes_sent=531
*Feb 4 03:24:54.435: //63//AFW_:/vapp_driver: evtID: 194 vapp record state: 0
*Feb 4 03:24:54.435: //63//AFW_:/vapp_bgpost_done_event:
*Feb 4 03:24:54.435: //63/972590A48011/VXML:/vxml_bgload_post_done:
  vxmlhandle=6767ECFC status=0 async_status=400000000
*Feb 4 03:24:54.435: //63/972590A48011/VXML:/vxml_bgload_post_done:
  Loading file with url (http://172.18.110.75:7000/CVP/Server)
*Feb 4 03:24:54.435: //63/972590A48011/VXML:/vxml_bgload_post_done: Script Content
<?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&
```

```
calling_into=GoodPrescriptionRefillApp7" xml:lang="en-us">
<property name="timeout" value="60s" />
<property name="confidencelevel" value="0.40" />
<form id="audium_start_form">
  <block>
    <assign name="audium_vxmlLog" expr="" />
    <assign name="audium_element_start_time_millisecs" expr="new Date().getTime()" />
    <goto next="#start" />
  </block>
</form>
<form id="start">
  <block>
    <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^'^ + application.getElap
sedTime(audium_element_start_time_millisecs)" />
    <goto nextitem="choice_fld" />
  </block>
  <field name="choice_fld" modal="false">
    <property name="inputmodes" value="dtmf voice" />
  </field>
</form>

```

Or.

Say pharmacist or press 2.

I did not understand that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

```

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

```

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

```

<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '2' + '^'^ +

```

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

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

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

I did not hear that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

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

I still did not hear that.

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

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

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

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



```

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

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

```

[O gateway cria os Grammars a serem usados para reconhecimento de DTMF / Fala](#)

Essas gramáticas são enviadas ao servidor ASR assim que o Gateway estabelece uma sessão RTSP com o servidor ASR.

```

*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:/mrpc_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" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> prescription</rule></grammar>
*Feb  4 03:24:54.447: //-1//MRCP:/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:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option323@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" mode="dtmf" root="root"><rule id="root"
scope="public">1</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option324@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **refills**</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option325@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **prescription refills**</rule></gram
mar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option326@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **refill my prescription**</rule></gr
ammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option327@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **I want to refill my prescription**</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:

*Feb 4 03:24:54.447: //-1//MRCP:/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:/mrpc_add_param: param: Speech-Language:
*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: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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP:/mrpc_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>agent> <item>pharmacist> </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>agent> <item>pharmacist> </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" 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:/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
```

[O Gateway envia uma solicitação RTSP SETUP ao Servidor ASR](#)

```
*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
```

[O Gateway recebe uma resposta 200 OK do Servidor ASRO](#) SDP da resposta 200 OK contém o endereço IP do servidor ASR e o número da porta UDP para os quais o Gateway precisa enviar pacotes RTP.

```
*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

[O Gateway envia a solicitação "DEFINE-GRAMMAR" do MRCP ao servidor ASR incorporado na solicitação de ANÚNCIO do RTSP](#) Apenas uma solicitação é mostrada aqui:

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

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

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

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

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

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

O Gateway recebe 200 respostas COMPLETAS para sua solicitação DEFINE-GRAMMAR

```
*Feb 4 03:24:54.555: rtsp_process_single_svr_resp: 400 bytes of data:
RTSP/1.0 200 OK
CSeq: 1
Session: 27b1560a_00000748_464c95e8_000b_0000
Content-Length: 27
Content-Type: application/mrcp
```

```
MRCP/1.0 3 200 COMPLETE
```

O gateway envia a solicitação "RECONHECIMENTO" de MRCP ao servidor ASR

```
*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

[O servidor ASR envia resposta IN-PROGRESS para a solicitação RECOGNIZE](#)

*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

[O gateway conclui o download do arquivo de mídia Welcome-1.wav, reproduz o prompt para o chamador e o armazena no cache](#)

*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:

[O Gateway envia uma solicitação RTSP SETUP ao servidor TTS](#)

*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

[O Gateway recebe uma resposta 200 OK do servidor TTS para a solicitação RTSP SETUP](#)

*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

[O Gateway envia a solicitação "SPEAK" do MRCP ao Servidor TTS para reproduzir o prompt "Bom dia e obrigado por ligar para a farmácia de áudio"](#)

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

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

*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: (socket:0) (bytes-sent:19)
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:114) 400 bytes of data:

Kill-On-Barge-In: true
Speech-Language: en-us
Logging-Tag: 63:63
Content-Base: http://172.18.110.75:7000/CVP/

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

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

pharmacy.

[O Servidor TTS envia resposta "EM ANDAMENTO" para a solicitação SPEAK](#)

*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

[Após a reprodução do prompt, o Servidor TTS envia a resposta "SPEAK-COMPLETE" do MRCP ao Gateway](#)

*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

[O servidor ASR detecta o início do discurso e notifica o Gateway usando a resposta START-OF-SPEECH](#)

*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

O Gateway envia resposta 200 OK para solicitação de Anúncio de MRCP

```
*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

O servidor ASR reconhece a palavra "Refills" e envia uma mensagem de "RECOGNITION-COMplete" do MRCP ao gateway

```
*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-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
```

Após receber uma notificação de reconhecimento bem-sucedida do servidor ASR, o Gateway VXML envia uma solicitação HTTP POST conforme especificado na tag SUBMIT do documento VXML (2) Esta solicitação POST informa ao servidor VXML que o usuário selecionou a opção "Refills" (Reembolsos).

```
*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
```

O último documento VXML enviado pelo servidor VXML contém apenas a marca de saída no formulário Isso instrui o Gateway a encerrar a sessão VXML.

```
*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>

```

[O gateway encerra o aplicativo VXML](#)

```

*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)
```

[O gateway desconecta a chamada no lado ISDN](#)

```
*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
```

[O gateway desconecta a sessão RTSP com o servidor ASR](#)

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

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

[O gateway desconecta a sessão RTSP com o servidor TTS](#)

```
*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
```

[Informações Relacionadas](#)

- [Suporte à Tecnologia de Voz](#)
- [Suporte aos produtos de Voz e Comunicações Unificadas](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)