

Gateway do IOS Voice XML ao fluxo de chamadas CVP usando MRCPv1 ASR/TTS

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[Introdução](#)

O linguagem de marcação extensível da Voz (VXML) é um padrão definido pelo consórcio da world wide web (W3C). O VXML é projetado para criar os diálogos de áudio que fornecem o discurso sintetizado, o reconhecimento das palavras ditas, o reconhecimento dos dígitos de DTMF e as gravações do áudio falado. O servidor e os clientes VXML usam o protocolo HTTP conhecido para trocar documentos e páginas VXML.

O Cisco Expresso o Portal (CVP) entrega os aplicativos inteligentes e a resposta de voz interativa (IVR) que podem ser alcançados pelo telefone. Há três tipos de implementações CVP:

- Serviço autônomo
- Controle de chamadas CVP
- Fila e transferência do atendimento

O discurso sintetizado, o reconhecimento das palavras ditas ou as funcionalidades do dígito de DTMF são fornecidos por servidores de texto para expressão (TTS) e de reconhecimento de discurso automático (ASR). O gateway de Cisco IOS® VXML comunica-se com os servidores TTS e ASR usando o protocolo de controle dos recursos de mídia (MRCP). Há duas versões de MRCP (RFC 4463), a saber MRCPv1 (MRCP sobre o RTSP) e MRCPv2 (MRCP sobre o SORVO).

Este documento descreve o fluxo de chamadas de um gateway de voz XML do Cisco IOS ao atendimento CVP em uma distribuição de serviço autônoma que use o servidor MRCPv1 TTS ou ASR. Um aplicativo de farmácia de amostra foi distribuído no servidor CVP VXML.

Pré-requisitos

Requisitos

Não existem requisitos específicos para este documento.

Componentes Utilizados

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

- Gateway IO VXML: Cisco AS5400XM, IO 12.4(11)T2
- Server VXML: CVP 4.0
- Server ASR/TTS: Nuance ASR v8.5 e TTS v4.0.6

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

Convenções

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

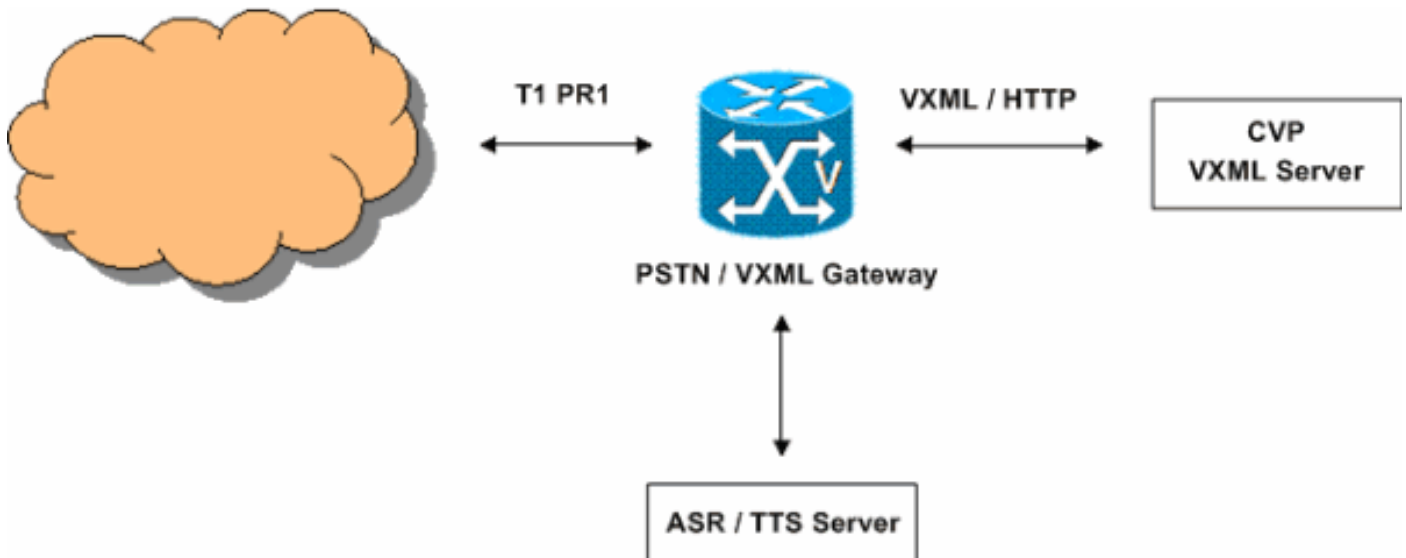
Configurar

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

Note: Use a ferramenta [Command Lookup Tool](#) ([apenas para 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 de 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 do fluxo de chamadas

Esta seção descreve o fluxo de chamadas esse resultados deste exemplo de configuração.

1. Uma chamada ISDN chega no PSTN/VXML Gateway através do T1 PRI 3/0.
2. O Gateway de IOS combina o POTS dial peer 1 como o dial peer de entrada para este atendimento.
3. O Gateway de IOS entrega fora do Controle de chamadas ao serviço da farmácia que é associado ao dial-peer 1.
4. O script CVP VXML/TCL associado com o serviço da farmácia envia um pedido HTTP GET ao server VXML.
5. O server VXML retorna uma resposta de 200 APROVAÇÕES. Esta resposta contém um documento ou a página VXML.
6. O Gateway de IOS executa o documento VXML.
7. Se o documento VXML especifica uma URL para um prompt de áudio, o Gateway de IOS transfere o arquivo de áudio e joga a alerta.
8. Se o documento VXML especifica um texto para um prompt de áudio, o Gateway de IOS estabelece uma sessão RTSP com `rtsp://10.86.177.39/synthesizer` (server TTS). Depois que a sessão RTSP é estabelecida, o gateway e do server TTS mensagens da troca MRCP como FALAM, SPEAK-COMPLETE usando o RTSP ANUNCIAM o pedido. O server TTS envia o fluxo de áudio G.711ulaw RTP ao endereço IP de Um ou Mais Servidores Cisco ICM NT e ao número de porta UDP fornecidos pelo gateway no encabeçamento do "transporte" da requisição de instalação RTSP.
9. Se os specifics do documento VXML o gateway para reconhecer dígitos de DTMF e palavras dita, Gateway de IOS estabelecem uma sessão RTSP com `rtsp://10.86.177.39/recognizer` (server ASR). Depois que a sessão RTSP é estabelecida, as mensagens da troca MRCP do gateway e do server ASR como DEFINEM A GRAMÁTICA, TERMINE, RECONHEÇA, RECOGNITION-COMPLETE usando o RTSP ANUNCIAM o pedido. O gateway IO VXML envia o fluxo de áudio G.711ulaw RTP ao endereço IP de Um ou Mais Servidores Cisco ICM NT e ao número de porta UDP fornecidos pelo ASR no SDP da resposta da APROVAÇÃO RTSP 200. O gateway IO VXML envia os dígitos incorporados pelo usuário PSTN como eventos RTP-NTE ao server ASR.
10. Depois que a execução do documento VXML, o gateway envia um pedido do CARGO HTTP (com um conjunto de parâmetro) como especificado na etiqueta do `<submit>` do documento ou da página VXML.
11. As etapas 6 – 10 ocorrem para cada documento VXML enviado pelo server.
12. Quando o aplicativo VXML termina o serviço proporcionado ao chamador, envia um documento VXML com apenas uma etiqueta `<exit/>` dentro do elemento do `<form>`.
13. O Gateway de IOS desliga as sessões MRCPv1 estabelecidas com os server TTS e ASR.
14. O Gateway de IOS desliga chamar o lado ISDN.

Verificar

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

A [Output Interpreter Tool \(apenas para clientes registrados\)](#) (OIT) suporta 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
```

- **mostre o detalhe do active da sessão cliente do mrcc**

```
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
```

```
#####
```

- **mostre conexões do rtp do voip**

```
VoIP RTP active connections :
```

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

- **mostre o cache de cliente HTTP**

```
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
```

[Troubleshooting](#)

Use esta seção para resolver problemas de configuração.

[Comandos debug](#)

Configurar o Gateway de IOS para registrar debuga em seu logging buffer e desabilitam o console de registro.

Note: Consulte [Informações Importantes sobre Comandos de Depuração](#) antes de usar comandos **debug**.

Estes são os comandos usados para configurar o gateway a fim armazenar debugam no logging buffer do gateway:

1. **service timestamps debug datetime msec**
 2. **preste serviços de manutenção à sequência**
 3. **nenhum console de registro**
 4. **registrando 5000000 protegidos debugar**
 5. **cancela o log**
- **debug isdn q931**
 - **debug voip ccapi inout**
 - **debugar o padrão do vxml do aplicativo do voip**
 - **debugar a descarga do vxml do aplicativo do voip**
 - **debugar o rtsp todo**
 - **debugar o mrp todo**
 - **debugar o cliente todo HTTP**
 - **debugar o Nomeado-evento do nte da sessão do rtp do voip**

Saídas de depuração

Esta seção fornece resultados do debug para este fluxo de chamadas da amostra:

1. [O gateway recebe uma chamada recebida do PSTN](#)
2. [O gateway combina o dial peer de entrada 1](#)
3. [O atendimento é entregue fora ao serviço da farmácia](#)
4. [O atendimento obtém conectado no lado ISDN](#)
5. [O gateway começa a execução do script do VoiceXML CVPSelfServiceBootstrap.vxml](#)
6. [O gateway envia um pedido HTTP GET ao server VXML](#)
7. [O gateway recebe uma mensagem de 200 APROVAÇÕES do server VXML](#)
8. [O gateway envia um pedido HTTP GET ao servidor de mídia transferir o arquivo Welcome-1.wav](#)
9. [O gateway recebe uma APROVAÇÃO 200 do servidor de mídia e recebe os índices do Welcome-1.wav no corpo da mensagem HTTP](#)
10. [O gateway envia um pedido do CARGO HTTP ao server como definido no “submete” a opção do documento VXML \(1\)](#)
11. [O gateway recebe a APROVAÇÃO 200 para seu pedido do CARGO HTTP](#)
12. [O gateway envia um pedido do CARGO HTTP como definido na opção da submissão do documento VXML \(2\)](#)
13. [O gateway recebe uma resposta de 200 APROVAÇÕES para o pedido do CARGO HTTP](#)
14. [O gateway cria as gramáticas a ser usadas para o DTMF/reconhecimento de discurso](#)
15. [O gateway envia uma requisição de instalação RTSP ao server ASR](#)
16. [O gateway recebe uma resposta de 200 APROVAÇÕES do server ASR](#)
17. [O gateway envia o pedido MRCP “DEFINE-GRAMMAR” ao server ASR encaixado dentro do RTSP ANUNCIA o pedido \(apenas um pedido é mostrado aqui\)](#)
18. [O gateway recebe a resposta 200 COMPLETA para seu pedido DEFINE-GRAMMAR](#)
19. [O gateway envia MRCP “RECONHECE” o pedido ao server ASR](#)

20. [O server ASR envia a resposta EM ANDAMENTO ao pedido do RECONHECIMENTO](#)
21. [O gateway termina a transferência do arquivo de media Welcome-1.wav, joga a alerta ao chamador e armazena-a no esconderijo](#)
22. [O gateway envia uma requisição de instalação RTSP ao server TTS](#)
23. [O gateway recebe uma resposta de 200 APROVAÇÕES do server TTS para a requisição de instalação RTSP](#)
24. [O gateway envia MRCP "FALA" o pedido ao server TTS jogar "bom dia e agradecer-lhe para chamar a alerta da farmácia de Audium"](#)
25. [O server TTS envia a resposta "EM ANDAMENTO" para o pedido do DISCURSO](#)
26. [Depois que a alerta é jogada, o server TTS envia a resposta MRCP "SPEAK-COMPLETE" ao gateway](#)
27. [O server ASR detecta o começo do discurso e notifica o gateway usando a resposta MRCP "START-OF-SPEECH"](#)
28. [O gateway envia uma resposta de 200 APROVAÇÕES a MRCP anuncia o pedido](#)
29. [O server ASR reconhece a palavra "reenche" e envia a mensagem MRCP "RECOGNITION-COMPLETE" ao gateway](#)
30. [Após ter recebido uma notificação bem sucedida do reconhecimento do server ASR, o gateway VXML envia um pedido do CARGO HTTP como especificado na etiqueta da SUBMISSÃO do documento VXML \(2\)](#)
31. O server VXML envia páginas VXML para recolher o número da prescrição, tempo de recolhimento e para informar o chamador que a prescrição estará pronta para o recolhimento. O gateway executa estas páginas interagindo com o server TTS e ASR (resultados do debug não mostrados).
32. [O documento final VXML enviado pelo server VXML contém apenas a etiqueta da saída no formulário](#)
33. [O gateway termina o aplicativo VXML](#)
34. [O gateway desliga chamar o lado ISDN](#)
35. [O gateway desliga a sessão RTSP estabelecida com o server ASR](#)
36. [O gateway desliga a sessão RTSP estabelecida com o server 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 dial peer de entrada 1 é combinado](#)

```
*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
```

[O atendimento é entregue fora ao serviço da 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
```

[O atendimento obtém conectado 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 começa a execução do script do VoiceXML CVPSelfServiceBootstrap.vxml](#)

```
*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 um pedido HTTP GET ao server VXML](#)

```

*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 de 200 APROVAÇÕES do server VXML](#)

O corpo da mensagem desta resposta contém um documento VXML (1). O documento VXML diz o gateway para jogar o arquivo de media Welcome-1.wav chamado situado 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 um pedido HTTP GET ao servidor de mídia transferir o arquivo Welcome-1.wav](#)

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

[O gateway recebe uma APROVAÇÃO 200 do servidor de mídia e recebe os índices do 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 um pedido do HTTP do CARGO ao server como definido no "submete" a opção do VXML Document\(1\)](#)

```
*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 a APROVAÇÃO 200 para seu pedido do HTTP do CARGO](#)

O corpo da mensagem contém um documento VXML (2). O documento VXML diz o gateway para jogar o "bom dia e para agradecer-lhe para chamar a farmácia de Audium.

Note: Esta alerta precisa de ser sintetizada por um server texto a expressão.

```
*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>

```

[O gateway envia um pedido do CARGO HTTP como definido na opção da submissão do documento VXML \(2\)](#)

```

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

```

[O gateway recebe uma resposta de 200 APROVAÇÕES para o pedido do CARGO HTTP](#)

O corpo da mensagem contém o documento VXML (3). Este documento VXML define uma alerta do menu que diga o chamador para incorporar 1 ou dizer reenchimentos, incorporar 2 ou dizer o farmacêutico. As alertas são sintetizadas por um server TTS. As entradas (discurso/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" />
    <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">Ge.
```

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

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

Or.

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

I did not understand that.

Say refills or press 1.

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

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

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

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

I did not hear that.

Say refills or press 1.

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

I still did not hear that.

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

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

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

```
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '3' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'noinput_audio_group' + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
<var name="maxNoInput" expr="'yes'" />
<submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog maxNoInput" />
</catch>
<option value="refills" dtmf="1">prescription</option>
<option value="refills">refills</option>
<option value="refills">prescription refills</option>
<option value="refills">refill my prescription</option>
<option value="refills">I want to refill my prescription</option>
<option value="refills">refills please</option>
<option value="Pharmacist" dtmf="2">Pharmacist</option>
<option value="Pharmacist">I want to speak to a pharmacist</option>
<option value="Pharmacist">pharmacist please</option>
<filled>
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||utterance$$$' +
choice fld$.utterance + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||inputmode$$$' +
choice fld$.inputmode + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||interpretation$$$' +
choice fld$ + '^^^' + application.getElapsedTime(audium_element_start_time_millisecs)" />
<assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||confidence$$$' +
choice fld$.confidence + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" />
<var name="confidence" expr="choice fld$.confidence" />
<submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog confidence choice fld" />
</filled>
</field>
</form>
</vxml>
```

[O gateway cria as gramáticas a ser usadas para o DTMF/reconhecimento de discurso](#)

Estas gramáticas estão enviadas então ao server ASR uma vez que o gateway estabelece uma sessão RTSP com o server 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" 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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option323@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmlns
s="http://www.w3.org/2001/06/grammar" mode="dtmf" root="root"><rule id="root"
scope="public">1</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option324@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" 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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option325@field.grammar
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmlns
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **prescription refills**</rule></gram
mar>
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:

grammar_id=session:option326@field.grammar

*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar version="1.0" xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root" scope="public"> **refill my prescription**</rule></grammar>

ammar>
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:

grammar_id=session:option327@field.grammar

*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar version="1.0" 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:/mrpc_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP:/mrpc_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:

grammar_id=session:option328@field.grammar

*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar version="1.0" 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:/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" 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:/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" 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:/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" 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:/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" 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:/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: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:/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: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:/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:help@grammar
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=1
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public">help</rule></grammar>
*Feb 4 03:24:54.451: //-1//MRCP:/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: 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 requisição de instalação RTSP ao server 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 de 200 APROVAÇÕES do server ASR](#)

O SDP da resposta de 200 APROVAÇÕES contém o endereço IP de Um ou Mais Servidores Cisco ICM NT do server ASR e o número de porta UDP a que o gateway precisa de 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=rtmpmap:101 telephone-event/8000
a=fmtp:101 0-15

[O gateway envia o pedido MRCP "DEFINE-GRAMMAR" ao server ASR encaixado dentro do RTSP ANUNCIA o pedido](#)

Somente um pedido é mostrado 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:
<?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>
```

[O gateway recebe a resposta 200 COMPLETA para seu pedido 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 MRCP "RECONHECE" o pedido ao server 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 server ASR envia a resposta EM ANDAMENTO ao pedido do RECONHECIMENTO](#)

*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

O gateway termina a transferência do arquivo de media Welcome-1.wav, joga a alerta ao chamador e armazena-a no esconderijo

```
*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 requisição de instalação RTSP ao server TTS

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

O gateway recebe uma resposta de 200 APROVAÇÕES do server TTS para a requisição de instalação RTSP

```
*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 MRCP "FALA" o pedido ao server TTS jogar "bom dia e agradecer-lhe para chamar a alerta da farmácia de Audium"

```
*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>**

[O server TTS envia a resposta “EM ANDAMENTO” para FALA o pedido](#)

*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

[Depois que a alerta é jogada, o server TTS envia a resposta MRCP “SPEAK-COMPLETE” 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 server ASR detecta o começo 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 uma resposta de 200 APROVAÇÕES a MRCP anuncia o pedido

```
*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 server ASR reconhece a palavra “reenche” e envia uma mensagem MRCP “RECOGNITION-COMplete” 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 ter recebido uma notificação bem sucedida do reconhecimento do server ASR, o gateway VXML envia um pedido do CARGO HTTP como especificado na etiqueta da SUBMISSÃO do documento VXML (2)

Este pedido do CARGO informa o server VXML que o usuário selecionou “reenche” a opção.

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

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

Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml, application/x-voicexml, text/plain, text/html, audio/basic, audio/wav, multipart/form-dat

[O último documento VXML enviado pelo server VXML contém apenas a etiqueta da saída no formulário](#)

Isto diz o gateway para terminar 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>
<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>
<bform>
  <bblock>
    <exit />
```

```
</block>
</form>
</vxml>
```

O gateway termina 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 desliga chamar o 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 desliga a sessão RTSP com o server ASR

```
*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
```

O gateway desliga a sessão RTSP com o server 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 ao Produto de Voz e Comunicações Unificadas](#)
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