

# 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 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 da 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.

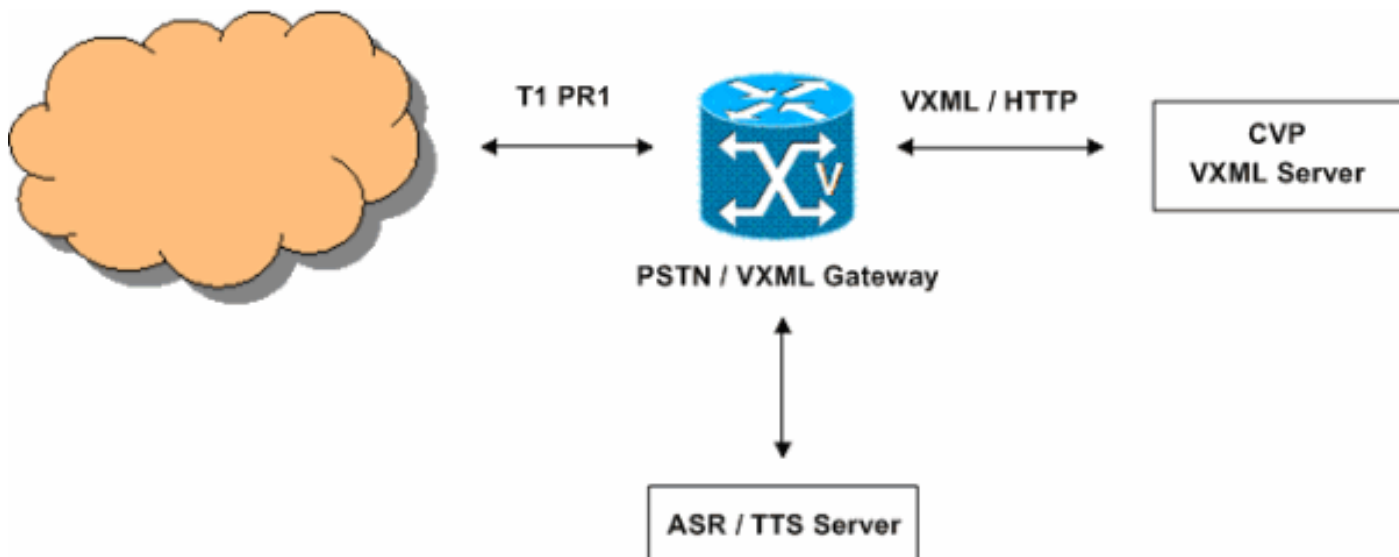
## Configurar

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

**Nota:** 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. !-
-- CVPPrimary parameter specifies the IP address of the
VXML server. service Pharmacy flash:CVPSelfService.tcl
paramspace english index 0 paramspace english language
en paramspace english location flash:param
CVPSelfService-port 7000 param CVPSelfService-app
GoodPrescriptionRefillApp7 paramspace english prefix en
param CVPPrimaryVXMLServer 172.18.110.75 !--- Specifies
the Gateway's RTP stream to the ASR or TTS to go around
the !--- Content Service Switch instead of through the
CSS. mrcp client rtpsetup enable !--- Specify the
maximum memory size for the HTTP Client Cache. http
client cache memory pool 15000 !--- Specify the maximum
number of file that can be stored in the HTTP Client
Cache. http client cache memory file 500 !--- Disable
Persistent HTTP Connections. no http client connection
persistent !--- Configure the T1 PRI. controller T1 3/0
framing esf linecode b8zs pri-group timeslots 1-24 !---
Configure the ISDN switch type and incoming-voice under
the D-channel interface. interface Serial3/0:23 no ip
address encapsulation hdlc isdn switch-type primary-net5
isdn incoming-voice modem no cdp enable !--- Configure a
POTS dial-peer that will be used as the inbound dial-

```

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

## 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 mrccp**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.

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

Estes são os comandos usados para configurar o gateway a fim armazenar debug 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//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 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.

**Nota:** 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 reenchantamentos, 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">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$$$' + 'initial_audio_group'
+ '^'^ + application.getElap sedTime(audium_element_start_time_millisecs)" /> <goto
nextitem="choice_fld" /> </block> <field name="choice_fld" modal="false"> <property
name="inputmodes" value="dtmf voice" /> <prompt bargein="true">Say refills or press 1. Or. Say
pharmacist or press 2.</prompt> <catch event="nomatch"> <prompt bargein="true">Sorry. I did not
understand that. Say refills or press 1. Say pharmacist or press 2.</prompt> <assign
name="audium_vxmlLog" expr="audium_vxmlLog + '|||nomatch$$$' + '1' + '^'^ +
application.getElapsedTime(audium_element_start_time_millisecs)" /> <assign
name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' + 'nomatch_audio_group' + '^'^
+ application.getElapsedTime(audium_element_start_time_millisecs)" /> </catch> <catch
event="nomatch" count="2"> <prompt bargein="true">Sorry, I still did not get that. If you are
using a speaker phone. Please use the phone keypad to make your selection. Press 1 for refills.
Press 2 to speak to a pharmacist.</prompt> <assign name="audium_vxmlLog" expr="audium_vxmlLog +
'|||nomatch$$$' + '2' + '^'^ + application.getElapsedTime(audium_element_start_time_millisecs)"
/> <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^'^ + application.getElapsedTime(audium_element_start_time_millisecs)"
/> </catch> <catch event="nomatch" count="3"> <prompt bargein="true">Gee. Looks like we are
having some trouble.</prompt> <assign name="audium_vxmlLog" expr="audium_vxmlLog +
'|||nomatch$$$' + '3' + '^'^ + application.getElapsedTime(audium_element_start_time_millisecs)"
/> <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'nomatch_audio_group' + '^'^ + application.getElapsedTime(audium_element_start_time_millisecs)"
/> <var name="maxNoMatch" expr="yes" /> <submit next="/CVP/Server" method="post" namelist="
audium_vxmlLog maxNoMatch" /> </catch> <catch event="noinput"> <prompt bargein="true">Sorry. I
did not hear that. Say refills or press 1. Say pharmacist or press 2.</prompt> <assign
name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '1' + '^'^ +
```

```

application.getElapsedTime(audium_element_start_time_millisecs)" /> <assign
name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' + 'noinput_audio_group' + '^^^'
+ application.getElapsedTime(audium_element_start_time_millisecs)" /> </catch> <catch
event="noinput" count="2"> <prompt bargein="true">I am sorry. I still did not hear that. If you
are using a speaker phone. Please use the phone keypad to make your selection. Press 1 for
refills. Press 2 to speak to a pharmacist.</prompt> <assign name="audium_vxmlLog"
expr="audium_vxmlLog + '|||noinput$$$' + '2' + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" /> <assign
name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' + 'noinput_audio_group' + '^^^'
+ application.getElapsedTime(audium_element_start_time_millisecs)" /> </catch> <catch
event="noinput" count="3"> <prompt bargein="true">Gee. Looks like we are having some
trouble.</prompt> <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||noinput$$$' + '3' +
'^^^' + application.getElapsedTime(audium_element_start_time_millisecs)" /> <assign
name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' + 'noinput_audio_group' + '^^^'
+ application.getElapsedTime(audium_element_start_time_millisecs)" /> <var name="maxNoInput"
expr="'yes'" /> <submit next="/CVP/Server" method="post" namelist=" audium_vxmlLog maxNoInput"
/> </catch> <option value="refills" dtmf="1">prescription</option> <option
value="refills">refills</option> <option value="refills">prescription refills</option> <option
value="refills">refill my prescription</option> <option value="refills">I want to refill my
prescription</option> <option value="refills">refills please</option> <option value="Pharmacist"
dtmf="2">Pharmacist</option> <option value="Pharmacist">I want to speak to a pharmacist</option>
<option value="Pharmacist">pharmacist please</option> <filled> <assign name="audium_vxmlLog"
expr="audium_vxmlLog + '|||utterance$$$' + choice_fld$.utterance + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" /> <assign name="audium_vxmlLog"
expr="audium_vxmlLog + '|||inputmode$$$' + choice_fld$.inputmode + '^^^' + application.getElap
sedTime(audium_element_start_time_millisecs)" /> <assign name="audium_vxmlLog"
expr="audium_vxmlLog + '|||interpretation$$$' + choice_fld + '^^^' +
application.getElapsedTime(audium_element_start_time_millisecs)" /> <assign
name="audium_vxmlLog" expr="audium_vxmlLog + '|||confidence$$$' + choice_fld$.confidence + '^^^'
+ application.getElapsedTime(audium_element_start_time_millisecs)" /> <var name="confidence"
expr="choice_fld$.confidence" /> <submit next="/CVP/Server" method="post" namelist="
audium_vxmlLog confidence choice_fld" /> </filled> </field> </form> </vxml>

```

## [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="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:/mrcp\_recognizer\_define\_grammar: sess-id: 17 \*Feb 4 03:24:54.447:  
//63//AFW\_:/vapp\_asr\_define\_grammar: \*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:option329@field.grammar** \*Feb 4 03:24:54.447:  
//63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us \*Feb 4 03:24:54.447:  
//63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8 \*Feb 4 03:24:54.447:  
//63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0 \*Feb 4 03:24:54.447:  
//63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar  
version="1.0" xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule  
id="root" scope="public"> **Pharmacist**</rule></grammar> \*Feb 4 03:24:54.447: //-  
1//MRCP:/mrcp\_add\_param: param: Speech-Language: \*Feb 4 03:24:54.447: //-  
1//MRCP:/mrcp\_add\_param: param: Content-Base: \*Feb 4 03:24:54.447: //-  
1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: \*Feb 4 03:24:54.451: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:option330@field.grammar** \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar  
version="1.0" xmlns="http://www.w3.org/2001/06/grammar" mode="dtmf" root="root"><rule id="root"  
scope="public">**2**</rule></grammar> \*Feb 4 03:24:54.451: //-1//MRCP:/mrcp\_add\_param: param:  
Content-Base: \*Feb 4 03:24:54.451: //-1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17 \*Feb  
4 03:24:54.451: //63//AFW\_:/vapp\_asr\_define\_grammar: \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: **grammar\_id=session:option331@field.grammar** \*Feb 4  
03:24:54.451: //63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar  
version="1.0" xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule  
id="root" scope="public"> **I want to speak to a pharmacist**</rule></grammar> \*Feb 4 03:24:54.451:  
//-1//MRCP:/mrcp\_add\_param: param: Speech-Language: \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_add\_param: param: Content-Base: \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: \*Feb 4 03:24:54.451: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:option332@field.grammar** \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar  
version="1.0" xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule  
id="root" scope="public"> **pharmacist please**</rule></grammar> \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_add\_param: param: Speech-Language: \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_add\_param: param: Content-Base: \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: \*Feb 4 03:24:54.451: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:link333@document.grammar** \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar  
xmlns="http://www.w3.org/2001/06/grammar" mode="voice" version="1.0" root="Hotlink\_02\_VOICE"  
xml:lang="en-us"> <rule id="Hotlink\_02\_VOICE" scope="public"> <one-of> <item>operator</item>  
<item>agent</item> <item>pharmacist</item> </one-of> </rule> </grammar> \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_add\_param: param: Speech-Language: \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_add\_param: param: Content-Base: \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: \*Feb 4 03:24:54.451: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:link334@document.grammar** \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0 \*Feb 4 03:24:54.451:  
//63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar  
xmlns="http://www.w3.org/2001/06/grammar" mode="voice" version="1.0" root="Hotlink\_01\_VOICE"  
xml:lang="en-us"> <rule id="Hotlink\_01\_VOICE" scope="public"> <one-of> <item>operator</item>  
<item>agent</item> <item>pharmacist</item> </one-of> </rule> </grammar> \*Feb 4 03:24:54.451: //-  
1//MRCP:/mrcp\_add\_param: param: Speech-Language: \*Feb 4 03:24:54.451: //-



```
1//MRCP:/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 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:
rtsp/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=rtpmap: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/mr_cp 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 **MRCP/1.0 17 200 IN-PROGRESS**

### [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//HTTTPC:/httpc\_is\_cached: **HTTTPC\_FILE\_IS\_CACHED** \*Feb 4 03:25:07.811: //-1//HTTTPC:/httpc\_set\_cache\_revoke\_cb: Registering  
revoke\_callback(0x61D9672C)+pcontext(0x6767A9FC) for cache p(0x672DA9C8) \*Feb 4 03:25:07.811: //63//AFW\_:/vapp\_driver: evtID: 145 vapp record state: 0 \*Feb 4 03:25:07.811: //63//AFW\_:/vapp\_play\_done: evID=145 reason=13, protocol=2, status\_code=0, dur=9504, rate=0 \*Feb 4 03:25:07.811: //63//972590A48011//VXML:/vxml\_media\_done:

### [O gateway envia uma requisição de instalação RTSP ao server 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 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-COMLETE 17 COMPLETE MRCP/1.0 Completion-Cause: 000 success Content-Type:
application/x-nlsml Content-Length: 716 <?xml version="1.0" encoding="UTF-8"?> <result
grammar="session:option420@field.grammar"> <interpreta *Feb 4 03:25:20.867: //-
1//RTSP:/rtsp_pmh_parse_svr_response: *Feb 4 03:25:20.867: //-
1//RTSP:/rtsp_pmh_parse_svr_response: just one response(may be partial): 849
```

## [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%
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:/http_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 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>
<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 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
cleanup: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](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)