

IOS Voice XML-gateway voor CVP Call Flow met behulp van MRCPv1 ASR/TTS

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Inleiding

Voice Extensible Markup Language (VXML) is een standaard die wordt gedefinieerd door het World Wide Web Consortium (W3C). VXML is ontworpen om audiodialogen te creëren die gesynthetiseerde spraak, herkenning van gesproken woorden, herkenning van DTMF-cijfers en opnames van gesproken audio voorzien. De VXML server en de cliënten gebruiken het bekende HTTP protocol om VXML documenten en pagina's uit te wisselen.

Cisco Voice Portal (CVP) biedt intelligente en interactieve spraakrespons (IVR) toepassingen die via de telefoon toegankelijk zijn. Er zijn drie soorten CVP-implementaties:

- Standalone services
- CVP-gespreksbeheer
- Gesprekswachtrij en overdracht

Synthetische spraak, herkenning van gesproken woorden of DTMF-cijferfuncties worden geboden door Tekst-to-Speech (TTS)- en Automatic Speech Recognition (ASR)-servers. Cisco IOS® VXML Gateway communiceert met de TTS- en ASR-servers met Media Resource Control Protocol (MRCP). Er zijn twee versies van MRCP (RFC 4463), namelijk MRCPv1 (MRCP via RTSP) en MRCPv2 (MRCP via SIP).

Dit document beschrijft de Call Flow van een Cisco IOS Voice XML Gateway naar CVP-oproep in een standalone servicetoepassing die MRCPv1 TTS of ASR-servers gebruikt. Er werd een aanvraag voor een voorbeeldfarmacie opgesteld op de CVP VXML server.

Voorwaarden

Vereisten

Er zijn geen specifieke vereisten van toepassing op dit document.

Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- IOS VXML-gateway Cisco AS5400XM, IOS 12.4(11)T2
- VXML server: CVP 4.0
- ASR- / TTS-server: Nuance ASR v8.5 en TTS v4.0.6

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u de potentiële impact van elke opdracht begrijpen.

Conventies

Raadpleeg [Cisco Technical Tips Conventions \(Conventies voor technische tips van Cisco\)](#) voor meer informatie over documentconventies.

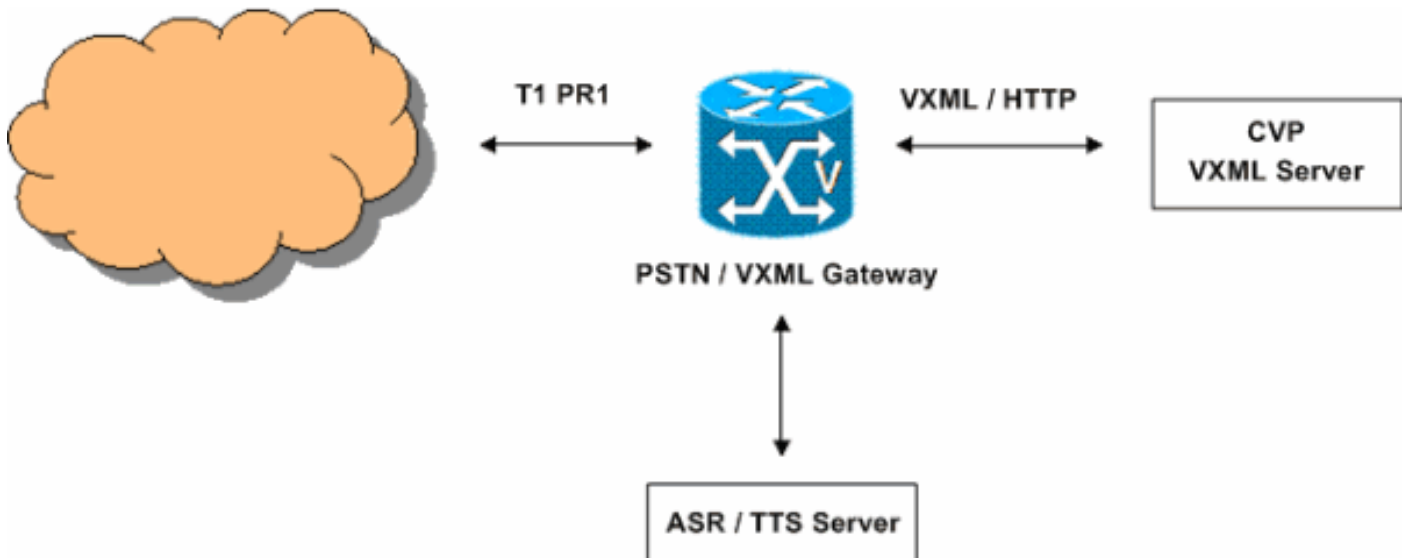
Configureren

Deze sectie bevat informatie over het configureren van de functies die in dit document worden beschreven.

N.B.: Gebruik het [Opdrachtupgereedschap](#) (alleen geregistreerde klanten) om meer informatie te vinden over de opdrachten die in dit document worden gebruikt.

Netwerkdigram

Het netwerk in dit document is als volgt opgebouwd:



Configuratie

Dit document gebruikt deze configuratie:

Configuratie van VXML-gateway

```

!--- 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
```

Voorbeeld van Call Flow

In deze sectie wordt de aanroep-stroom beschreven die het resultaat is van dit configuratievoorbeeld.

1. Een ISDN-oproep arriveert op de PSTN / VXML-gateway via T1 PRI 3/0.
2. IOS gateway past POTS wijzerplaat-peer 1 als de inkomende wijzerplaat-peer voor deze vraag aan.
3. IOS Gateway maakt de aanspreekcontrole af op de farmaciedienst die is gekoppeld aan dial-peers 1.
4. Het CVP VXML / TCL script dat is gekoppeld aan de Farmaciedienst stuurt een HTTP GET aanvraag naar de VXML server.
5. De VXML-server geeft een 200 OK-respons terug. Deze reactie bevat een VXML document of pagina.
6. IOS Gateway voert het VXML-document uit.
7. Als het VXML document een URL voor een audio vraag specificeert, IOS gateway het audiobestand downloads en speelt de herinnering.
8. Als het VXML-document een Tekst voor een audio-prompt specificeert, stelt IOS-gateway een RTSP-sessie vast met `rtsp://10.86.177.39/synthesizer` (TTS-server). Nadat de RTSP-sessie is ingesteld, worden de MRCP-berichten van de Gateway en TTS-server uitgewisseld zoals SPEAK, SPEAK-COMPLETE door gebruik te maken van de RTSP-AANKONDIGING-aanvraag. De TTS Server stuurt de audiostream G.711ulaw RTP naar het IP-adres en het UDP-poortnummer dat door de gateway in de "Transport"-header van het RTSP-verzoek wordt geleverd.
9. Als het VXML-document de Gateway specificeert om DTMF-cijfers en gesproken woorden te herkennen, stelt IOS-gateway een RTSP-sessie met `rtsp://10.86.177.39/recognizer` (ASR-server) in. Nadat de RTSP-sessie is ingesteld, worden de MRCP-berichten van de gateway- en ASR-server uitgewisseld, zoals DEFINE GRAMMAR, COMPLETE, HERKENNEN, HERKENNEN-COMPLETE met behulp van het RTSP-AANKONDIGINGSverzoek. De IOS VXML-gateway stuurt de G.711ulaw RTP-audiobron naar het IP-adres en UDP-poortnummer dat door de ASR in de SDP van de RTSP 200 OK-respons wordt geleverd. De IOS VXML Gateway stuurt de cijfers die door de PSTN-gebruiker als RTP-NTE-gebeurtenissen zijn ingevoerd naar de ASR-server.
10. Na de uitvoering van het VXML document, stuurt de Gateway een HTTP POST-aanvraag (met een reeks parameters) zoals gespecificeerd in de `<submit>` tag van het VXML-document of de pagina.
11. Stappen 6 - 10 komen voor voor elk VXML document dat door de server wordt verstuurd.
12. Wanneer de VXML-toepassing de service die aan de beller wordt geleverd, voltooid is, wordt er een VXML-document met alleen een `<exit/>`-tag in het `<form>`-element verzonden.
13. IOS Gateway sluit de MRCPv1 sessies af die met de TTS- en ASR-servers zijn ingesteld.
14. IOS-gateway sluit de oproep aan de ISDN-zijde af.

Verifiëren

Gebruik dit gedeelte om te bevestigen dat de configuratie correct werkt.

Het [Uitvoer Tolk](#) ([uitsluitend geregistreeerde](#) klanten) (OIT) ondersteunt bepaalde **show** opdrachten. Gebruik de OIT om een analyse van **tonen** opdrachtoutput te bekijken.

- **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
```

- **actieve details van mrpc-clientsessie tonen**

```
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
```

```
#####
```

- **voip rtp-verbindingen tonen**

```
VoIP RTP active connections :
```

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

- **toon http client cache**

```
HTTP Client cached information
```

```
=====
```

```
Maximum memory pool allowed for HTTP Client caching = 15000 K-bytes
Maximum file size allowed for caching = 500 K-bytes
Total memory used up for Cache = 410 Bytes
Message response timeout = 10 secs
Total cached entries = 1
Total non-cached entries = 0
```

```
Cached entries
=====
```

```
entry 114, 1 entries
```

Ref	FreshTime	Age	Size	context
---	-----	---	----	-----
1	119524	31	1271	0

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

Problemen oplossen

Gebruik dit gedeelte om de configuratie van het probleem op te lossen.

Opdrachten debug

Configureer de IOS-gateway om de defecten in de houtkapbuffer te registreren en de houtkapconsole uit te schakelen.

Opmerking: Raadpleeg [Belangrijke informatie over debug Commands](#) voordat u **debug**-opdrachten gebruikt.

Dit zijn de opdrachten die worden gebruikt om de Gateway te configureren om de debugs in de logbuffer van de gateway op te slaan:

1. **Service timepostzegels debug msec**
 2. **servicesequentie**
 3. **geen logconsole**
 4. **houtkap gebufferd met 500000 debug**
 5. **helder logbestand**
- **debug van ISDN Q931**
 - **voip ccapi inout debug**
 - **standaard voip-toepassing vxml**
 - **debug van voip-toepassing vxml-dumpen**
 - **rtsp alle debug**
 - **mrcp deken**
 - **debug http client all**
 - **debug van voip rtp-sessie met naam**

[Debug Outputs](#)

In deze sectie worden debug-uitgangen voor deze voorbeeldaanroep geleverd:

1. [Gateway ontvangt inkomende oproepen van PSTN](#)
2. [Gatewayovereenkomsten met inkomende dial-peers 1](#)
3. [Bel de apotheker](#)
4. [Bel wordt aangesloten aan de ISDN-zijde](#)
5. [Gateway start de uitvoering van het CVPSelfServiceBootstrap.vxml VoiceXML-script](#)
6. [Gateway stuurt een HTTP GET aanvraag naar de VXML server](#)
7. [Gateway ontvangt een 200 OK-bericht van de VXML-server](#)
8. [Gateway stuurt een HTTP Get Application naar de Media Server om het Welcome-1.wav-bestand te downloaden](#)
9. [Gateway ontvangt 200 OK van de Media Server en ontvangt de inhoud van de Welcome-1.wav in de HTTP-berichttekst](#)
10. [Gateway stuurt een HTTP POST-aanvraag naar de server zoals gedefinieerd in de "Submit" optie van het VXML-document \(1\)](#)
11. [Gateway ontvangt 200 OK voor zijn HTTP POST-aanvraag](#)
12. [Gateway stuurt een HTTP POST-aanvraag zoals gedefinieerd in de Submit optie van het VXML-document \(2\)](#)
13. [Gateway ontvangt 200 OK-respons voor het HTTP POST-verzoek](#)
14. [Gateway maakt de Grammars die gebruikt moet worden voor DTMF-/spraakherkenning](#)
15. [Gateway stuurt een RTSP SETUP-verzoek naar de ASR-server](#)
16. [De gateway ontvangt een 200 OK-reactie van de ASR-server](#)
17. [Gateway stuurt een "DEFINE-GRAMMAR"-verzoek naar een ASR-server die deel uitmaakt](#)

- [van de RTSP-AANKONDIGINGSaanvraag \(hier wordt slechts één verzoek getoond\)](#)
18. [Gateway ontvangt 200 COMPLETE respons voor zijn DEFINE-GRAMMAR-aanvraag](#)
 19. [Gateway stuurt MRCP-verzoek "HERKENNING" naar de ASR-server](#)
 20. [ASR-server stuurt INPUT-PROGRESS-respons op het HERKENNINGsverzoek](#)
 21. [Gateway is klaar met het downloaden van het mediabestand Welcome-1.wav, speelt de aanroep en slaat het op in het cache](#)
 22. [Gateway stuurt een RTSP SETUP-verzoek naar de TTS-server](#)
 23. [Gateway ontvangt een 200 OK-reactie van de TTS-server voor de RTSP Setup-aanvraag](#)
 24. [Gateway stuurt een "SPEAK"-verzoek van MRCP naar de TTS-server om de "Goede ochtend te spelen en u te bedanken voor het oproepen van de "AUTOMATISCHE apotheek".](#)
 25. [TTS Server stuurt "IN-PROGRESS"-respons voor het SPEAK-verzoek](#)
 26. [Nadat de prompt wordt weergegeven, verstuurt de TTS Server een MRCP "SPEAK-COMplete"-reactie op de gateway](#)
 27. [ASR Server detecteert het begin van spraak en waarschuwt de gateway met de "START-OF-SPEECH"-respons van MRCP](#)
 28. [Gateway stuurt 200 OK-reactie op verzoek van MRCP-aankondiging](#)
 29. [ASR Server herkent het woord "Refills" en stuurt MRCP "RECOGNITION-COMplete"-bericht naar de gateway](#)
 30. [Na ontvangst van een succesvol herkenningsbericht van de ASR-server, stuurt de VXML-gateway een HTTP POST-verzoek zoals gespecificeerd in de SUBMIT-tag van het VXML-document \(2\)](#)
 31. VXML-server stuurt VXML-pagina's voor het verzamelen van het receptnummer, de ophaaltijd en de beller ervan op de hoogte te stellen dat het recept klaar is voor ophaling. Gateway voert deze pagina's uit door te interageren met TTS en ASR server (debug uitvoer niet weergegeven).
 32. [Het laatste VXML-document dat door de VXML-server wordt verstuurd, bevat alleen de exit-tag in het formulier](#)
 33. [Gateway eindigt de VXML-toepassing](#)
 34. [Gateway sluit de oproep aan de ISDN-zijde af](#)
 35. [Gateway sluit de RTSP-sessie af die met de ASR-server is ingesteld](#)
 36. [Gateway sluit de RTSP-sessie af die met de TTS-server is ingesteld](#)

[Inkomend gesprek van 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
```

[Binnenkant dial-peer 1 wordt aangepast](#)

```
*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
```

[Bel de apotheker](#)

```
*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
```

[Bel wordt aangesloten aan de ISDN-zijde](#)

```
*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:
```

[Gateway start de uitvoering van het CVPSelfServiceBootstrap.vxml VoiceXML-script](#)

```
*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)

```

[Gateway stuurt een HTTP GET aanvraag naar de VXML server](#)

```

*Feb  4 03:24:54.255: //63//HTTTPC:/httpc_write_stream: Client write buffer fd(0):
GET /CVP/Server?application=GoodPrescriptionRefillApp7&callid=972590A4-185511D6-80110013-803E8C8E&session.connection.remote.uri=5555&session.connection.local.uri=5555 HTTP/1.1
Host: 172.18.110.75:7000
Content-Type: application/x-www-form-urlencoded
Connection: close
Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml, application/x-voicexml, text/plain, text/html, audio/basic, audio/wav, multipart/form-data, application/octet-stream
User-Agent: Cisco-IOS-C5400/12.4

```

[Gateway ontvangt een 200 OK-bericht van de VXML-server](#)

De berichttekst van deze reactie bevat een VXML document (1). Het VXML-document vertelt de Gateway om het mediabestand Welcome-1.wav te spelen dat zich in een Media Server bevindt

```

*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>
```

[Gateway stuurt een HTTP Get Application naar de Media Server om het Welcome-1.wav-bestand te downloaden](#)

```
*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
```

[Gateway ontvangt 200 OK van de Media Server en ontvangt de inhoud van de Welcome-1.wav in de HTTP-berichttekst](#)

```
*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

[Gateway stuurt een POST HTTP-aanvraag naar de server zoals gedefinieerd in de optie "Indienen" van het 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
```

[Gateway ontvangt 200 OK voor zijn POST HTTP-aanvraag](#)

De berichttekst bevat een VXML document (2). In het VXML-document staat dat de gateway "Goedemorgen" moet spelen en "Bedankt voor het bellen van de AUTOMATISCHE apotheek".

N.B.: Deze melding moet worden gesynthetiseerd door een Tekst-to-Speech Server.

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

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

```

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

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

```

[Gateway stuurt een HTTP POST-aanvraag zoals gedefinieerd in de Submit optie van het VXML-document \(2\)](#)

```

*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

```

[Gateway ontvangt 200 OK-respons voor het HTTP POST-verzoek](#)

De berichttekst bevat VXML document (3). Dit VXML document definieert een menu-melding die de beller vertelt om 1 in te voeren of te zeggen 'Refills', 2 in te voeren of apotheker te zeggen. De aanwijzingen worden gesynthetiseerd door een TTS Server. De ingangen (spraak / dtmf) worden herkend met een 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" />

```

Or.

Say pharmacist or press 2.

I did not understand that.

Say refills or press 1.

Say pharmacist or press 2.

```

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

```

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

```

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

```

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

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

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

I did not hear that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

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

I still did not hear that.

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

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

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

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

```

<?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&
calling_into=GoodPrescriptionRefillApp7" xml:lang="en-us">
  <property name="timeout" value="60s" />
  <property name="confidencelevel" value="0.40" />
  <form id="audium_start_form">
    <block>
      <assign name="audium_vxmlLog" expr="" />
      <assign name="audium_element_start_time_millisecs" expr="new Date().getTime()" />
      <goto next="#start" />
    </block>
  </form>
  <form id="start">
    <block>
      <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^'^ + application.getElap
sedTime(audium_element_start_time_millisecs)" />
      <goto nextitem="choice_fld" />
    </block>
    <field name="choice_fld" modal="false">
      <property name="inputmodes" value="dtmf voice" />
    </field>
  </form>
</vxml>

```

Or.

Say pharmacist or press 2.

I did not understand that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

```

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

```

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

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

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

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

I did not hear that.

Say refills or press 1.

Say pharmacist or press 2.</prompt>

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

I still did not hear that.

If you are using a speaker phone.

Please use the phone keypad to make your selection.

Press 1 for refills.

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

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

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

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



```

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

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

```

[Gateway maakt de Grammars die gebruikt moet worden voor DTMF-/spraakherkenning](#)

Deze grammatica's worden dan naar de ASR-server verzonden als de gateway een RTSP-sessie met de ASR-server vastlegt.

```

*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_change_server:
asr_server=rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//MRCP://mrcp_change_url: sess-id: 17,
url=rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//RTSP://rtsplib_pmh_parse_url:
*Feb  4 03:24:54.447: //-1//RTSP://rtsplib_pmh_parse_url: Input-Url:
rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//RTSP://rtsplib_pmh_parse_url: Hostname:
10.86.177.39Port      : 554Path      : recognizer
*Feb  4 03:24:54.447: //-1//RTSP://rtsplib_pmh_parse_url:
*Feb  4 03:24:54.447: //-1//RTSP://rtsplib_pmh_parse_url: Input-Url:
rtsp://10.86.177.39/recognizer
*Feb  4 03:24:54.447: //-1//RTSP://rtsplib_pmh_parse_url: Hostname:
10.86.177.39Port      : 554Path      : recognizer
*Feb  4 03:24:54.447: //63//MRCP://mrcp_change_url: fsm (674DA1E4) already defined
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:option322@field.grammar
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb  4 03:24:54.447: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> prescription</rule></grammar>

```

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

scope="public"> **I want to refill my prescription**</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar:
grammar_id=session:option328@field.grammar
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **refills please**</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Speech-Language:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_add_param: param: Content-Base:
*Feb 4 03:24:54.447: //-1//MRCP://mrcp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar:
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar:
grammar_id=session:option329@field.grammar
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.447: //63//AFW://vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar version="1.0" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **Pharmacist**</rule></grammar>
*Feb 4 03:24:54.447: //-1//MRCP://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" xmln
s="http://www.w3.org/2001/06/grammar" mode="dtmf" root="root"><rule id="root"
scope="public">**2**</rule></grammar>
*Feb 4 03:24:54.451: //-1//MRCP://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" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **I want to speak to a pharmacist**</rule></grammar>
*Feb 4 03:24:54.451: //-1//MRCP://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" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public"> **pharmacist please**</rule></grammar>

```

*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Speech-Language:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:link333@document.grammar
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=0
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0"
encoding="UTF-8"?><grammar xmlns="http://www.w3.org/2001/06/grammar" mode="voice" version="1.0"
root="Hotlink_02_VOICE" xml:lang="en-us">
  <rule id="Hotlink_02_VOICE" scope="public">
    <one-of>
      <item>operator>
      <item>agent> <item>pharmacist> </one-of> </rule> </grammar> *Feb 4 03:24:54.451: //-
1//MRCP:/mr_cp_add_param: param: Speech-Language: *Feb 4 03:24:54.451: //-
1//MRCP:/mr_cp_add_param: param: Content-Base: *Feb 4 03:24:54.451: //-
1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:link334@document.grammar *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: xml_lang=en-us *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: remoteupdate=0 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar
xmlns="http://www.w3.org/2001/06/grammar" mode="voice" version="1.0" root="Hotlink_01_VOICE"
xml:lang="en-us"> <rule id="Hotlink_01_VOICE" scope="public"> <one-of> <item>operator>
<item>agent> <item>pharmacist> </one-of> </rule> </grammar> *Feb 4 03:24:54.451: //-
1//MRCP:/mr_cp_add_param: param: Speech-Language: *Feb 4 03:24:54.451: //-
1//MRCP:/mr_cp_add_param: param: Content-Base: *Feb 4 03:24:54.451: //-
1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
grammar_id=session:help@grammar *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar:
xml_lang=en-us *Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: encoding_name=UTF-8
*Feb 4 03:24:54.451: //63//AFW_:/vapp_asr_define_grammar: remoteupdate=1 *Feb 4 03:24:54.451:
//63//AFW_:/vapp_asr_define_grammar: grammar=<?xml version="1.0" encoding="UTF-8"?><grammar
version="1.0" xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule
id="root" scope="public">help</rule></grammar> *Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param:
param: Speech-Language: *Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_add_param: param: Content-Base:
*Feb 4 03:24:54.451: //-1//MRCP:/mr_cp_recognizer_define_grammar: sess-id: 17 *Feb 4
03:24:54.451: //63//AFW_:/vapp_asr: grammar_id=session:option322@field.grammar
grammar_id=session:option323@field.grammar grammar_id=session:option324@field.grammar
grammar_id=session:option325@field.grammar grammar_id=session:option326@field.grammar
grammar_id=session:option327@field.grammar grammar_id=session:option328@field.grammar
grammar_id=session:option329@field.grammar grammar_id=session:option330@field.grammar
grammar_id=session:option331@field.grammar grammar_id=session:option332@field.grammar
grammar_id=session:link333@document.grammar grammar_id=session:link334@document.grammar
grammar_id=session:help@grammar

```

Gateway stuurt een RTSP SETUP-verzoek naar de ASR-server

```

*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

```

De gateway ontvangt een 200 OK-reactie van de ASR-server Het SDP-nummer van de 200 OK-respons bevat het IP-adres van de ASR-server en het UDP-poortnummer waaraan de gateway RTP-pakketten moet verzenden.

```

*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

[Gateway stuurt een "DEFINE-GRAMMAR"-verzoek naar de ASR-server die in het RTSP-AANKONDIGINGSverzoek is ingebed](#) Hier wordt slechts één verzoek getoond:

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

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

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

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

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

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

[Gateway ontvangt 200 COMPLETE respons voor zijn DEFINE-GRAMMAR-aanvraag](#)

```
*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
```

[Gateway stuurt MRCP-verzoek "HERKENNING" naar de ASR-server](#)

```
*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:24) 400 bytes of data:  
RECOGNIZE 17 MRCP/1.0
```

```
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.619: (socket:0) (bytes-sent:24)  
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:347) 400 bytes of data:  
Speech-Language: en-us  
Confidence-Threshold: 40  
Sensitivity-Level: 50  
Speed-Vs-Accuracy: 50  
Dtmf-Interdigit-Timeout: 10000  
Dtmf-Term-Timeout: 0  
Dtmf-Term-Char: #  
No-Input-Timeout: 60000  
N-Best-List-Length: 1  
Logging-Tag: 63:63  
Accept-Charset: charset: utf-8  
Content-Base: http://172.18.110.75:7000/CVP/  
Recognizer-Start-Timers: false
```

```
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.619: (socket:0) (bytes-sent:347)  
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:52) 400 bytes of data:  
Content-Type: text/uri-list  
Content-Length: 453
```

```
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.619: (socket:0) (bytes-sent:52)  
*Feb 4 03:24:54.619: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.619: rtsp_partial_socket_send: (fd:0 len:256) 400 bytes of data:  
session:option322@field.grammar  
session:option323@field.grammar  
session:option324@field.grammar  
session:option325@field.grammar  
session:option326@field.grammar  
session:option327@field.grammar  
session:option328@field.grammar  
session:option329@field.grammar  
*Feb 4 03:24:54.623: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.623: (socket:0) (bytes-sent:256)  
*Feb 4 03:24:54.623: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:24:54.623: rtsp_partial_socket_send: (fd:0 len:197) 400 bytes of data:
```

session:option330@field.grammar
session:option331@field.grammar
session:option332@field.grammar
session:link333@document.grammar
session:link334@document.grammar
session:help@grammar

[ASR-server stuurt INPUT-PROGRESS-respons op het HERKENNINGsverzoek](#)

```
*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
```

[Gateway is klaar met het downloaden van het mediabestand Welcome-1.wav, speelt de aanroep en slaat het op in het cache](#)

```
*Feb 4 03:25:07.811: //63//HTTPC:/httpc_is_cached: HTTPC_FILE_IS_CACHED  
*Feb 4 03:25:07.811: //-1//HTTPC:/httpc_set_cache_revoke_cb:  
Registering revoke_callback(0x61D9672C)+pcontext(0x6767A9FC) for cache p(0x672DA9C8)  
*Feb 4 03:25:07.811: //63//AFW_:/vapp_driver: evtID: 145 vapp record state: 0  
*Feb 4 03:25:07.811: //63//AFW_:/vapp_play_done: evID=145 reason=13, protocol=2,  
status_code=0, dur=9504, rate=0  
*Feb 4 03:25:07.811: //63/972590A48011/VXML:/vxml_media_done:
```

[Gateway stuurt een RTSP SETUP-verzoek naar de TTS-server](#)

```
*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
```

[Gateway ontvangt 200 OK-respons van de TTS-server voor het RTSP SETUP-verzoek](#)

```
*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
```

[Gateway stuurt een "SPEAK"-verzoek van MRCP naar de TTS-server om de "Goede ochtend te spelen en u te bedanken voor het oproepen van de "AUTOMATISCHE apotheek".](#)

```
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:165) 400 bytes of data:  
ANNOUNCE rtsp://10.86.177.39/synthesizer RTSP/1.0  
CSeq: 17  
Session: 27b1560a_00000748_464c95e8_000b_0000  
Content-Type: application/mrcp  
Content-Length: 307  
  
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:25:07.835: (socket:0) (bytes-sent:165)  
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:19) 400 bytes of data:  
SPEAK 2 MRCP/1.0  
  
*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:  
*Feb 4 03:25:07.835: (socket:0) (bytes-sent:19)
```

*Feb 4 03:25:07.835: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:25:07.835: rtsp_partial_socket_send: (fd:0 len:114) 400 bytes of data:
Kill-On-Barge-In: true
Speech-Language: en-us
Logging-Tag: 63:63
Content-Base: http://172.18.110.75:7000/CVP/

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

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

pharmacy.

TTS Server stuurt "IN-PROGRESS"-respons voor SPEAK-verzoek

*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

Nadat de prompt wordt weergegeven, verstuurt de TTS Server een MRCP "SPEAK-COMplete"-reactie op de 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

ASR Server detecteert het begin van spraak en waarschuwt de gateway met START-OF-SPEECH respons

*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

[Gateway stuurt 200 OK-reactie op verzoek van MRCP-aankondiging](#)

*Feb 4 03:25:19.711: //-1//RTSP:/rtsp_partial_socket_send:

*Feb 4 03:25:19.711: rtsp_partial_socket_send: (fd:0 len:76) 400 bytes of data:

RTSP/1.0 200 OK

CSeq: 3

Session: 27b1560a_00000748_464c95e8_000b_0000

[ASR Server herkent het woord "Refills" en stuurt een MRCP-bericht "RECOGNITION-COMplete" naar de 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

[Na ontvangst van een succesvol herkenningsbericht van de ASR-server, stuurt de VXML-gateway een HTTP POST-verzoek zoals gespecificeerd in de SUBMIT-tag van het VXML-document \(2\)](#) Dit POST-verzoek informeert de VXML-server dat de gebruiker de "Refills"-optie heeft geselecteerd.

*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%5E%5E4%7C%7C%7Cinputmode\$\$\$voice%5E%5E%5E%5E26516%7C%7C%7Cinterpretation\$\$\$refills%5E%5E%5E%5E265

7C%7C%7Cconfidence\$\$\$0.55%5E%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%5E%5E4%7C%7C%7Cutterance\$\$\$refills%5E%5E%5E%5E26516%7C%7C%7Cinputmode\$\$\$voice%5E%5E%5E%5E26516%7C%7C%7Cinterpretation\$\$\$refills%5E%5E%5E%5E26516%7C%7C%7Cconfidence\$\$\$0.55%5E%5E%5E%5E26516&confide

nce=0.55&choice_fld=refills

*Feb 4 03:25:21.039: //63//HTTPC:/httpc_socket_send:

*Feb 4 03:25:21.039: about to send data to the socket 0 : first 400 bytes of data:

POST /CVP/Server HTTP/1.1

Host: 172.18.110.75:7000

Content-Length: 271

Content-Type: application/x-www-form-urlencoded

Cookie: \$Version=0; JSESSIONID=6FE82FC3B0E02909CA5A9307D57F00E1; \$Path=/CVP

Connection: close

Accept: text/vxml, text/x-vxml, application/vxml, application/x-vxml, application/voicexml,

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

[Het laatste VXML-document dat door de VXML-server wordt verstuurd, bevat alleen de exit-tag in de vorm](#) Dit vertelt de Gateway om de VXML sessie te beëindigen.

*Feb 4 03:26:20.623: processing server rsp msg: msg(63ABB204)

URL:http://172.18.110.75:7000/CVP/Server, fd(0):

*Feb 4 03:26:20.623: Request msg: POST /CVP/Server HTTP/1.1

*Feb 4 03:26:20.623: Message Response Code: 200
*Feb 4 03:26:20.623: Message Rsp Decoded Headers:
*Feb 4 03:26:20.623: Date:Thu, 17 May 2007 15:49:57 GMT
*Feb 4 03:26:20.623: Content-Type:text/xml;charset=ISO-8859-1
*Feb 4 03:26:20.623: Connection:close
*Feb 4 03:26:20.623: Set-Cookie:JSESSIONID=NULL; Expires=Thu, 01-Jan-1970 00:00:10 GMT;
Path=/CVP
*Feb 4 03:26:20.623: headers:
*Feb 4 03:26:20.623: HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Set-Cookie: JSESSIONID=NULL; Expires=Thu, 01-Jan-1970 00:00:10 GMT; Path=/CVP
Content-Type: text/xml;charset=ISO-8859-1
Date: Thu, 17 May 2007 15:49:57 GMT
Connection: close

*Feb 4 03:26:20.627: body:
*Feb 4 03:26:20.627: <?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" xml:lang="en-us">
 <catch event="vxml.session.error">
 <exit />
 </catch>
 <catch event="telephone.disconnect.hangup">
 <exit />
 </catch>
 <catch event="telephone.disconnect">
 <exit />
 </catch>
 <catch event="error.unsupported.object">
 <exit />
 </catch>
 <catch event="error.unsupported.language">
 <exit />
 </catch>
 <catch event="error.unsupported.format">
 <exit />
 </catch>
 <catch event="error.unsupported.element">
 <exit />
 </catch>
 <catch event="error.unsupported.builtin">
 <exit />
 </catch>
 <catch event="error.unsupported">
 <exit />
 </catch>
 <catch event="error.semantic">
 <exit />
 </catch>
 <catch event="error.noresource">
 <exit />
 </catch>
 <catch event="error.noauthorization">
 <exit />
 </catch>
 <catch event="error.eventhandler.notfound">
 <exit />
 </catch>
 <catch event="error.connection.noroute">
 <exit />
 </catch>
 <catch event="error.connection.noresource">
 <exit />
 </catch>

```

<catch event="error.connection.nolicense">
  <exit />
</catch>
<catch event="error.connection.noauthorization">
  <exit />
</catch>
<catch event="error.connection.baddestination">
  <exit />
</catch>
<catch event="error.condition.baddestination">
  <exit />
</catch>
<catch event="error.com.cisco.media.resource.unavailable">
  <exit />
</catch>
<catch event="error.com.cisco.handoff.failure">
  <exit />
</catch>
<catch event="error.com.cisco.callhandoff.failure">
  <exit />
</catch>
<catch event="error.com.cisco.aaa.authorize.failure">
  <exit />
</catch>
<catch event="error.com.cisco.aaa.authenticate.failure">
  <exit />
</catch>
<catch event="error.badfetch.https">
  <exit />
</catch>
<catch event="error.badfetch.http">
  <exit />
</catch>
<catch event="error.badfetch">
  <exit />
</catch>
<catch event="error">
  <exit />
</catch>
<catch event="disconnect.com.cisco.handoff">
  <exit />
</catch>
<catch event="connection.disconnect.hangup">
  <exit />
</catch>
<catch event="connection.disconnect">
  <exit />
</catch>
<form>
  <block>
    <exit />
  </block>
</form>
</vxml>

```

[Gateway eindigt de VXML-toepassing](#)

```

*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)
```

[Gateway sluit de oproep aan de ISDN-zijde af](#)

```
*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
```

[Gateway sluit de RTSP-sessie af met de ASR-server](#)

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

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

[Gateway sluit de RTSP-sessie met de TTS server af](#)

```
*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
```

[Gerelateerde informatie](#)

- [Ondersteuning voor spraaktechnologie](#)
- [Productondersteuning voor spraak en Unified Communications](#)
- [Probleemoplossing voor Cisco IP-telefonie](#)
- [Technische ondersteuning en documentatie – Cisco Systems](#)