

# Flux d'appels d'une passerelle XML voix IOS vers CVP à l'aide de MRCPv1 ASR / TTS

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## Introduction

Le langage XML de Voix (VXML) est une norme définie par World Wide Web Consortium (W3C). VXML est conçu pour créer les dialogues sonores qui fournissent le discours synthétisé, la reconnaissance des mots parlés, la reconnaissance des chiffres DTMF et les enregistrements de l'audio parlé. Le serveur et les clients VXML emploient le protocole HTTP réputé pour permuter des documents et des pages VXML.

Le port voix de Cisco (CVP) fournit les applications intelligentes et de la réponse vocale interactive (RVI) qui peuvent être accédées à au-dessus du téléphone. Il y a trois types de déploiements CVP :

- Service autonome
- Contrôle d'appel CVP
- File d'attente et transfert d'appel

Des fonctionnalités synthétisées de la parole, de reconnaissance des mots parlés ou de chiffre DTMF sont fournies par des serveurs de la reconnaissance vocale texte-voix (TTS) et automatique (ASR). La passerelle du Cisco IOS® VXML communique avec les serveurs TTS et ASR utilisant le protocole de contrôle des ressources média (MRCP). Il y a deux versions de MRCP (RFC 4463), à savoir MRCPv1 (MRCP au-dessus de RTSP) et MRCPv2 (MRCP au-dessus de SIP).

Ce document décrit l'écoulement d'appel d'une passerelle de la Voix XML de Cisco IOS à l'appel

CVP dans un déploiement autonome de service qui utilise des serveurs MRCPv1 TTS ou ASR. Une application de pharmacie témoin a été déployée au serveur CVP VXML.

## Conditions préalables

### Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

### Composants utilisés

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

- Passerelle IOS VXML : Cisco AS5400XM, IOS 12.4(11)T2
- Serveur VXML : CVP 4.0
- Serveur ASR/TTS : Nuance ASR v8.5 et TTS v4.0.6

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

### Conventions

Pour plus d'informations sur les conventions utilisées dans ce document, reportez-vous à [Conventions relatives aux conseils techniques Cisco](#).

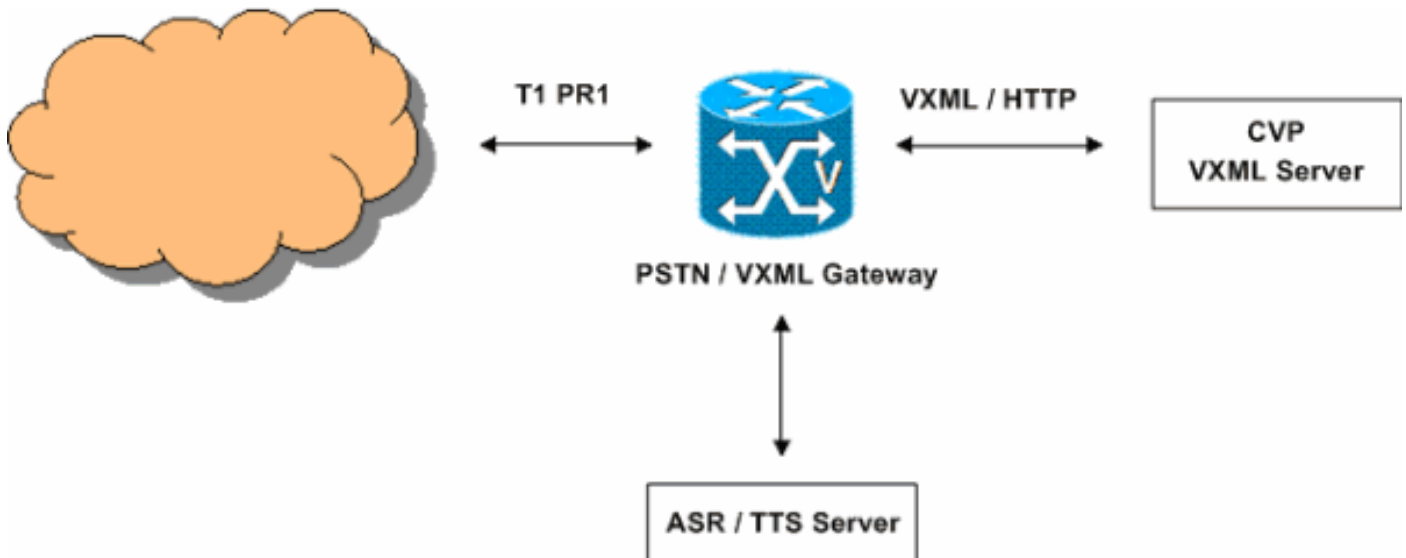
## Configurer

Cette section vous fournit des informations pour configurer les fonctionnalités décrites dans ce document.

**Remarque:** Utilisez l'outil [Command Lookup Tool](#) (clients [enregistrés](#) seulement) pour trouver plus d'informations sur les commandes utilisées dans ce document.

### Diagramme du réseau

Ce document utilise la configuration réseau suivante :



## Configurations

Ce document utilise la configuration suivante :

### Configuration de passerelle VXML

```

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

```

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

## Exemple d'écoulement d'appel

Cette section décrit l'écoulement d'appel ce des résultats de cet exemple de configuration.

1. Un appel RNIS arrive au PSTN/au VXML Gateway à travers le T1 PRI 3/0.
2. La passerelle IOS apparie l'homologue de numérotation POTS 1 en tant qu'homologue de numérotation en entrée pour cet appel.
3. La passerelle IOS remet outre du Contrôle d'appel au service de pharmacie qui est le cadran-pair associé 1.
4. Le script CVP VXML/TCL associé avec le service de pharmacie envoie une requête HTTP GET au serveur VXML.
5. Le serveur VXML renvoie une réponse de 200 OKS. Cette réponse contient un document ou la page VXML.
6. La passerelle IOS exécute le document VXML.
7. Si le document VXML spécifie un URL pour une demande d'audio, la passerelle IOS télécharge le fichier audio et lit la demande.
8. Si le document VXML spécifie un texte pour une demande d'audio, la passerelle IOS établit une session de RTSP avec `rtsp://10.86.177.39/synthesizer` (serveur TTS). Après que la session de RTSP soit établie, la passerelle et des messages de l'échange MRCP de serveur TTS comme PARLENT, SPEAK-COMLETE à l'aide du RTSP ANNONCENT la demande. Le serveur TTS envoie le flux audio de RTP G.711ulaw à l'adresse IP et au numéro de port UDP fournis par la passerelle dans l'en-tête de « transport » de la demande de configuration de RTSP.
9. Si les specifes de document VXML la passerelle pour identifier des chiffres DTMF et des mots parlés, passerelle IOS établit une session de RTSP avec `rtsp://10.86.177.39/recognizer` (serveur ASR). Après que la session de RTSP soit établie, les messages de l'échange MRCP de passerelle et de serveur ASR comme DÉFINISSENT LA GRAMMAIRE, TERMINEZ-VOUS, RECONNAISSEZ, RECOGNITION-COMLETE à l'aide du RTSP ANNONCENT la demande. La passerelle IOS VXML envoie le flux audio de RTP G.711ulaw à l'adresse IP et au numéro de port UDP fournis par l'ASR dans le SDP de la réponse d'OK du RTSP 200. La passerelle IOS VXML envoie les chiffres écrits par l'utilisateur PSTN comme événements RTP-NTE au serveur ASR.
10. Après l'exécution du document VXML, la passerelle envoie une demande de POST de HTTP (avec un ensemble de paramètres) comme spécifié dans la balise de `<submit>` du document ou de la page VXML.
11. Étapes 6 – 10 se produisent pour chaque document VXML envoyé par le serveur.
12. Quand l'application VXML termine le service fourni à l'appelant, elle envoie un document VXML avec juste une balise `<exit/>` dans l'élément de `<form>`.
13. La passerelle IOS déconnecte les sessions MRCPv1 établies avec les serveurs TTS et ASR.
14. La passerelle IOS déconnecte le faire appel au côté RNIS.

## Vérifier

Référez-vous à cette section pour vous assurer du bon fonctionnement de votre configuration.

L'[Outil Interpréteur de sortie](#) (clients [enregistrés](#) uniquement) (OIT) prend en charge certaines commandes **show**. Utilisez l'OIT pour afficher une analyse de la sortie de la commande **show**.

- **brief de show call active voice**

```
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
```

- **détail de show mrcp client session active**

```
No Of Active MRCP Sessions: 1

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

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

- **show voip rtp connections**

```
VoIP RTP active connections :
No. CallId      dstCallId LocalRTP RmtRTP LocalIP      RemoteIP
1 66           63       17704   1224   172.18.110.77  10.86.177.39
```

- **show http client cache**

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

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

```
entry 114, 1 entries
Ref  FreshTime  Age      Size      context
---  -
1    119524     31      1271     0
url: http://172.18.110.75/Welcome-1.wav
```

## Dépanner

Utilisez cette section pour dépanner votre configuration.

## [Commandes de débogage](#)

Configurez la passerelle IOS pour se connecter met au point dans son tampon de journalisation et désactive le logging console.

**Remarque:** Référez-vous aux [informations importantes sur les commandes de débogage](#) avant d'utiliser les commandes de **débogage**.

Ce sont les commandes utilisées pour configurer la passerelle afin d'enregistrer met au point dans le tampon de journalisation de la passerelle :

1. les horodateurs de service mettent au point la milliseconde date-heure
  2. entretenez l'ordre
  3. no logging console
  4. le logging buffered 5000000 mettent au point
  5. clear log
- debug isdn q931
  - [debug voip ccapi inout](#)
  - par défaut de debug voip application vxml
  - vidage mémoire de debug voip application vxml
  - debug rtsp all
  - debug mrp tout
  - debug http client tout
  - nommer-événement de nte de session de debug voip rtp

## Sorties de débogage

Cette section fournit des sorties de débogage pour cet écoulement d'appel d'échantillon :

1. [La passerelle reçoit un appel entrant du PSTN](#)
2. [La passerelle apparie l'homologue de numérotation en entrée 1](#)
3. [L'appel est remis hors fonction au service de pharmacie](#)
4. [L'appel obtient connecté du côté RNIS](#)
5. [La passerelle commence l'exécution du script de VoiceXML CVPSelfServiceBootstrap.vxml](#)
6. [La passerelle envoie une requête HTTP GET au serveur VXML](#)
7. [La passerelle reçoit un message de 200 OKS du serveur VXML](#)
8. [La passerelle envoie une requête HTTP GET au serveur multimédia de télécharger le fichier Welcome-1.wav](#)
9. [La passerelle reçoit un OK 200 du serveur multimédia et reçoit le contenu du Welcome-1.wav au corps du message de HTTP](#)
10. [La passerelle envoie une demande de POST de HTTP au serveur comme défini dans « soumettez » l'option du document VXML \(1\)](#)
11. [La passerelle reçoit l'OK 200 pour sa demande de POST de HTTP](#)
12. [La passerelle envoie une demande de POST de HTTP comme définie dans l'option de soumission du document VXML \(2\)](#)
13. [La passerelle reçoit la réponse de 200 OKS pour la demande de POST de HTTP](#)
14. [La passerelle crée les grammaires à utiliser pour DTMF/reconnaissance vocale](#)
15. [La passerelle envoie une demande de configuration de RTSP au serveur ASR](#)
16. [La passerelle reçoit une réponse de 200 OKS du serveur ASR](#)
17. [La passerelle envoie demande MRCP la « DEFINE-GRAMMAR » au serveur ASR encasté](#)

- [dans le RTSP ANNONCENT la demande \(juste une demande est affichée ici\)](#)
18. [La passerelle reçoit la réponse 200 COMPLÈTE pour sa demande DEFINE-GRAMMAR](#)
  19. [La passerelle envoie MRCP « IDENTIFIANT » la demande au serveur ASR](#)
  20. [Le serveur ASR envoie la réponse EN COURS à la demande de RECONNAISSANCE](#)
  21. [La passerelle termine le téléchargement du fichier multimédia Welcome-1.wav, lit la demande à l'appelant et l'enregistre dans le cache](#)
  22. [La passerelle envoie une demande de configuration de RTSP au serveur TTS](#)
  23. [La passerelle reçoit une réponse de 200 OKS du serveur TTS pour la demande de configuration de RTSP](#)
  24. [La passerelle envoie MRCP « PARLENT » la demande au serveur TTS de lire « bonjour et de vous remercier la demande d'appeler d'Audium pharmacie »](#)
  25. [Le serveur TTS envoie la réponse « EN COURS » pour la demande de PARLER](#)
  26. [Après que la demande soit lue, le serveur TTS envoie réponse MRCP la « SPEAK-COMLETE » à la passerelle](#)
  27. [Le serveur ASR détecte le début de la parole et informe la passerelle utilisant réponse MRCP la « START-OF-SPEECH »](#)
  28. [La passerelle envoie la réponse de 200 OKS à MRCP annoncent la demande](#)
  29. [Le serveur ASR identifie le mot « remplit » et envoie message MRCP le « RECOGNITION-COMLETE » à la passerelle](#)
  30. [Après réception d'une notification réussie de reconnaissance du serveur ASR, la passerelle VXML envoie une demande de POST de HTTP comme spécifiée dans la balise de SOUMISSION du document VXML \(2\)](#)
  31. Le serveur VXML envoie des pages VXML pour collecter le nombre de prescription, temps d'intrcpt et pour informer l'appelant que la prescription sera prête pour l'intrcpt. La passerelle exécute ces pages en interagissant avec le serveur TTS et ASR (sorties de débogage non affichées).
  32. [Le document de la finale VXML envoyé par le serveur VXML contient juste la balise de sortie sous la forme](#)
  33. [La passerelle termine l'application VXML](#)
  34. [La passerelle déconnecte le faire appel au côté RNIS](#)
  35. [La passerelle déconnecte la session de RTSP établie avec le serveur ASR](#)
  36. [La passerelle déconnecte la session de RTSP établie avec le serveur TTS](#)

## Appel entrant de 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
```

## [L'homologue de numérotation en entrée 1 est apparié](#)

```
*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
```

## [L'appel est remis hors fonction au service de pharmacie](#)

```
*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
```

## [L'appel obtient connecté du côté RNIS](#)

```
*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:
```

## [La passerelle commence l'exécution du script de 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)

```

## [La passerelle envoie une requête HTTP GET au serveur 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

```

## [La passerelle reçoit un message de 200 OKS du serveur VXML](#)

Le corps du message de cette réponse contient un document VXML (1). Le document VXML indique la passerelle lire Welcome-1.wav appelé par fichier multimédia situé dans un serveur multimédia

```
*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>
```

[La passerelle envoie une requête HTTP GET au serveur multimédia de télécharger le fichier 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
```

[La passerelle reçoit un OK 200 du serveur multimédia et reçoit le contenu du Welcome-1.wav au corps du message de 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

[La passerelle envoie une demande de HTTP de POST au serveur comme défini dans « soumettez » l'option du 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

[La passerelle reçoit l'OK 200 pour sa demande de HTTP de POST](#)

Le corps du message contient un document VXML (2). Le document VXML indique la passerelle lire « bonjour et vous remercier d'appeler la pharmacie d'Audium.

**Remarque:** Cette demande doit être synthétisée par un serveur texte-voix.

\*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>

```

## [La passerelle envoie une demande de POST de HTTP comme définie dans l'option de soumission du document VXML \(2\)](#)

```

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

```

## [La passerelle reçoit la réponse de 200 OKS pour la demande de POST de HTTP](#)

Le corps du message contient le document VXML (3). Ce document VXML définit un menu prompt qui indique l'appelant pour écrire 1 ou pour dire des recharges, pour écrire 2 ou pour dire le pharmacien. Les demandes sont synthétisées par un serveur TTS. Les entrées (la parole/dtmf) sont identifiées utilisant un 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">Ge.

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

```

## [La passerelle crée les grammaires à utiliser pour DTMF/reconnaissance vocale](#)

Ces grammaires sont alors envoyées au serveur ASR une fois que la passerelle établit une session de RTSP avec le serveur 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:/mrcp\_change\_url: sess-id: 17,  
url=rtsp://10.86.177.39/recognizer  
\*Feb 4 03:24:54.447: //-1//RTSP:/rtsplib\_pmh\_parse\_url:  
\*Feb 4 03:24:54.447: //-1//RTSP:/rtsplib\_pmh\_parse\_url: Input-Url:  
rtsp://10.86.177.39/recognizer  
\*Feb 4 03:24:54.447: //-1//RTSP:/rtsplib\_pmh\_parse\_url: Hostname:  
10.86.177.39Port : 554Path : recognizer  
\*Feb 4 03:24:54.447: //-1//RTSP:/rtsplib\_pmh\_parse\_url:  
\*Feb 4 03:24:54.447: //-1//RTSP:/rtsplib\_pmh\_parse\_url: Input-Url:  
rtsp://10.86.177.39/recognizer  
\*Feb 4 03:24:54.447: //-1//RTSP:/rtsplib\_pmh\_parse\_url: Hostname:  
10.86.177.39Port : 554Path : recognizer  
\*Feb 4 03:24:54.447: //63//MRCP:/mrcp\_change\_url: fsm (674DA1E4) already defined  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:option322@field.grammar**  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0"  
encoding="UTF-8"?><grammar version="1.0" xmlns  
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"  
scope="public"> **prescription**</rule></grammar>  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_add\_param: param: Speech-Language:  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_add\_param: param: Content-Base:  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:option323@field.grammar**  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0"  
encoding="UTF-8"?><grammar version="1.0" xmlns  
s="http://www.w3.org/2001/06/grammar" mode="dtmf" root="root"><rule id="root"  
scope="public">1</rule></grammar>  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_add\_param: param: Content-Base:  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:option324@field.grammar**  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0"  
encoding="UTF-8"?><grammar version="1.0" xmlns  
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"  
scope="public"> **refills**</rule></grammar>  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_add\_param: param: Speech-Language:  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_add\_param: param: Content-Base:  
\*Feb 4 03:24:54.447: //-1//MRCP:/mrcp\_recognizer\_define\_grammar: sess-id: 17  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar:  
**grammar\_id=session:option325@field.grammar**  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: xml\_lang=en-us  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: encoding\_name=UTF-8  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: remoteupdate=0  
\*Feb 4 03:24:54.447: //63//AFW\_:/vapp\_asr\_define\_grammar: grammar=<?xml version="1.0"  
encoding="UTF-8"?><grammar version="1.0" xmlns  
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"  
scope="public"> **prescription refills**</rule></gram

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

```

    </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" xmln
s="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root"><rule id="root"
scope="public">help</rule></grammar>
*Feb 4 03:24:54.451: //-1//MRCP:/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

```

## [La passerelle envoie une demande de configuration de RTSP au serveur ASR](#)

```

*Feb 4 03:24:54.475: #####
*Feb 4 03:24:54.475: Request
*Feb 4 03:24:54.475: SETUP rtsp://10.86.177.39/recognizer RTSP/1.0
CSeq: 0
Transport: rtp/avp;unicast;client_port=17704;mode=record

```

## [La passerelle reçoit une réponse de 200 OKS du serveur ASR](#)

Le SDP de la réponse de 200 OKS contient l'adresse IP et le numéro de port UDP du serveur ASR auxquels la passerelle doit envoyer des paquets de 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

## [La passerelle envoie demande MRCP la « DEFINE-GRAMMAR » au serveur ASR encasté dans le RTSP ANNONCENT la demande](#)

Seulement une demande est affichée ici :

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

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

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

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

```
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: (socket:0) (bytes-sent:99)
*Feb 4 03:24:54.535: //-1//RTSP:/rtsp_partial_socket_send:
*Feb 4 03:24:54.535: rtsp_partial_socket_send: (fd:0 len:193) 400 bytes of data:
<?xml version="1.0" encoding="UTF-8"?><grammar version="1.0"
xmlns="http://www.w3.org/2001/06/grammar" xml:lang="en-us" root="root">
<rule id="root" scope="public"> prescription</rule></grammar>
```

## [La passerelle reçoit la réponse 200 COMPLÈTE pour sa demande 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

## La passerelle envoie MRCP « IDENTIFIANT » la demande au serveur 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

## Le serveur ASR envoie la réponse EN COURS à la demande de RECONNAISSANCE

\*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**

### [La passerelle termine le téléchargement du fichier multimédia Welcome-1.wav, lit la demande à l'appelant et l'enregistre dans le 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:
```

### [La passerelle envoie une demande de configuration de RTSP au serveur TTS](#)

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

### [La passerelle reçoit une réponse de 200 OKS du serveur TTS pour la demande de configuration de 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
```

### [La passerelle envoie MRCP « PARLENT » la demande au serveur TTS de lire « bonjour et de vous remercier la demande d'appeler d'Audium pharmacie »](#)

```
*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>
```

### [Le serveur TTS envoie la réponse « EN COURS » pour PARLENT la demande](#)

```
*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
```

### [Après que la demande soit lue, le serveur TTS envoie réponse MRCP la « SPEAK-COMLETE » à la passerelle](#)

```
*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-COMLETE 2 COMPLETE MRCP/1.0
Completion-Cause: 000 normal
```

### [Le serveur ASR détecte le début de la parole et informe la passerelle utilisant la réponse 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

### [La passerelle envoie la réponse de 200 OKS à MRCP annoncent la demande](#)

```
*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
```

### [Le serveur ASR identifie le mot « rempli » et envoie message MRCP un « RECOGNITION-COMLETE » à la passerelle](#)

```
*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
```

### [Après réception d'une notification réussie de reconnaissance du serveur ASR, la passerelle VXML envoie une demande de POST de HTTP comme spécifiée dans la balise de SOUMISSION du document VXML \(2\)](#)

Cette demande de POST informe le serveur VXML que l'utilisateur a sélectionné « rempli » l'option.

```
*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//HTTTPC:/httpc_socket_send:
```

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

**POST /CVP/Server HTTP/1.1**

Host: 172.18.110.75:7000

Content-Length: 271

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

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

Connection: close

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

[Le dernier document VXML envoyé par le serveur VXML contient juste la balise de sortie sous la forme](#)

Ceci indique la passerelle terminer la session VXML.

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

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

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

\*Feb 4 03:26:20.623: Message Response Code: 200

\*Feb 4 03:26:20.623: Message Rsp Decoded Headers:

\*Feb 4 03:26:20.623: Date:Thu, 17 May 2007 15:49:57 GMT

\*Feb 4 03:26:20.623: Content-Type:text/xml;charset=ISO-8859-1

\*Feb 4 03:26:20.623: Connection:close

\*Feb 4 03:26:20.623: Set-Cookie:JSESSIONID=NULL; Expires=Thu, 01-Jan-1970 00:00:10 GMT;

Path=/CVP

\*Feb 4 03:26:20.623: headers:

\*Feb 4 03:26:20.623: HTTP/1.1 200 OK

Server: Apache-Coyote/1.1

Set-Cookie: JSESSIONID=NULL; Expires=Thu, 01-Jan-1970 00:00:10 GMT; Path=/CVP

Content-Type: text/xml;charset=ISO-8859-1

Date: Thu, 17 May 2007 15:49:57 GMT

Connection: close

\*Feb 4 03:26:20.627: body:

\*Feb 4 03:26:20.627: <?xml version="1.0" encoding="UTF-8"?>

<vxml version="2.0" xml:lang="en-us">

<catch event="vxml.session.error">

<exit />

</catch>

<catch event="telephone.disconnect.hangup">

<exit />

</catch>

<catch event="telephone.disconnect">

<exit />

</catch>

<catch event="error.unsupported.object">

<exit />

</catch>

<catch event="error.unsupported.language">

<exit />

</catch>

<catch event="error.unsupported.format">

<exit />

</catch>

<catch event="error.unsupported.element">

<exit />

</catch>

<catch event="error.unsupported.builtin">

<exit />

</catch>

<catch event="error.unsupported">

```
<exit />
</catch>
<catch event="error.semantic">
  <exit />
</catch>
<catch event="error.noresource">
  <exit />
</catch>
<catch event="error.noauthorization">
  <exit />
</catch>
<catch event="error.eventhandler.notfound">
  <exit />
</catch>
<catch event="error.connection.noroute">
  <exit />
</catch>
<catch event="error.connection.noresource">
  <exit />
</catch>
<catch event="error.connection.nolicense">
  <exit />
</catch>
<catch event="error.connection.noauthorization">
  <exit />
</catch>
<catch event="error.connection.baddestination">
  <exit />
</catch>
<catch event="error.condition.baddestination">
  <exit />
</catch>
<catch event="error.com.cisco.media.resource.unavailable">
  <exit />
</catch>
<catch event="error.com.cisco.handoff.failure">
  <exit />
</catch>
<catch event="error.com.cisco.callhandoff.failure">
  <exit />
</catch>
<catch event="error.com.cisco.aaa.authorize.failure">
  <exit />
</catch>
<catch event="error.com.cisco.aaa.authenticate.failure">
  <exit />
</catch>
<catch event="error.badfetch.https">
  <exit />
</catch>
<catch event="error.badfetch.http">
  <exit />
</catch>
<catch event="error.badfetch">
  <exit />
</catch>
<catch event="error">
  <exit />
</catch>
<catch event="disconnect.com.cisco.handoff">
  <exit />
</catch>
<catch event="connection.disconnect.hangup">
  <exit />
</catch>
```

```
</catch>
<catch event="connection.disconnect">
  <exit />
</catch>
<form>
  <block>
    <exit />
  </block>
</form>
</vxml>
```

### La passerelle termine l'application VXML

```
*Feb 4 03:26:28.803: //63/972590A48011/VXML:/vxml_vapp_terminate:
  vapp_status=0 ref_count 0
*Feb 4 03:26:28.803: //63//AFW_:/vapp_terminate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_session_exit_event_name: Exit Event vxml.session.complete
*Feb 4 03:26:28.803: //63//AFW_:/AFW_M_VxmlModule_Terminate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checksessionstate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checkifdone: Object: 1, Leg: 1
*Feb 4 03:26:28.803: //63/972590A48011/VXML:/pop_exec_stack:

*Feb 4 03:26:28.803: pop_exec_stack: sidp->vxmlp->urip=http://172.18.110.75:7000/CVP/Server
*Feb 4 03:26:28.803: //63/972590A48011/VXML:/vxml_leave_scope:
  scope=application
*Feb 4 03:26:28.803: vxml_tree_delete:mem_mgr_mempool_free: mem_refcnt(6848EE98)=
0 - mempool cleanup
*Feb 4 03:26:28.803: vxml_tree_delete:mem_mgr_mempool_free: mem_refcnt(6848CD00)=
0 - mempool cleanupnls_mem_free
*Feb 4 03:26:28.803: nls_mem_free:mem_mgr_mempool_free: mem_refcnt(67651498)=
0 - mempool cleanup
*Feb 4 03:26:28.803: //63/972590A48011/VXML:/vxml_session_delete:

*Feb 4 03:26:28.803: vxml_session_delete:mem_mgr_mempool_free: mem_refcnt(6848CD54)=
0 - mempool cleanup
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checksessionstate:
*Feb 4 03:26:28.803: //63//AFW_:/vapp_checkifdone: Object: 0, Leg: 0
*Feb 4 03:26:28.807: //63/972590A48011/CCAPI/ccCallDisconnect:
  Cause Value=16, Tag=0x0, Call Entry(Previous Disconnect Cause=0, Disconnect Cause=0)
*Feb 4 03:26:28.807: //63/972590A48011/CCAPI/ccCallDisconnect:
  Cause Value=16, Call Entry(Responded=TRUE, Cause Value=16)
```

### La passerelle déconnecte le faire appel au côté RNIS

```
*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
```

### La passerelle déconnecte la session de RTSP avec le serveur 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
```

## [La passerelle déconnecte la session de RTSP avec le serveur 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
```

## [Informations connexes](#)

- [Assistance technique concernant la technologie vocale](#)
- [Assistance concernant les produits vocaux et de communications unifiées](#)
- [Dépannage des problèmes de téléphonie IP Cisco](#)
- [Support et documentation techniques - Cisco Systems](#)