

VVB 11.6消息流综合呼叫流技术

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简介

本文档介绍具有复杂呼叫流程的思科虚拟化语音浏览器(VVB)上的消息流。

先决条件

本文档没有任何特定的要求。

使用的组件

- VVB版本11.6
- 思科统一客户语音门户(CVP)版本11.6

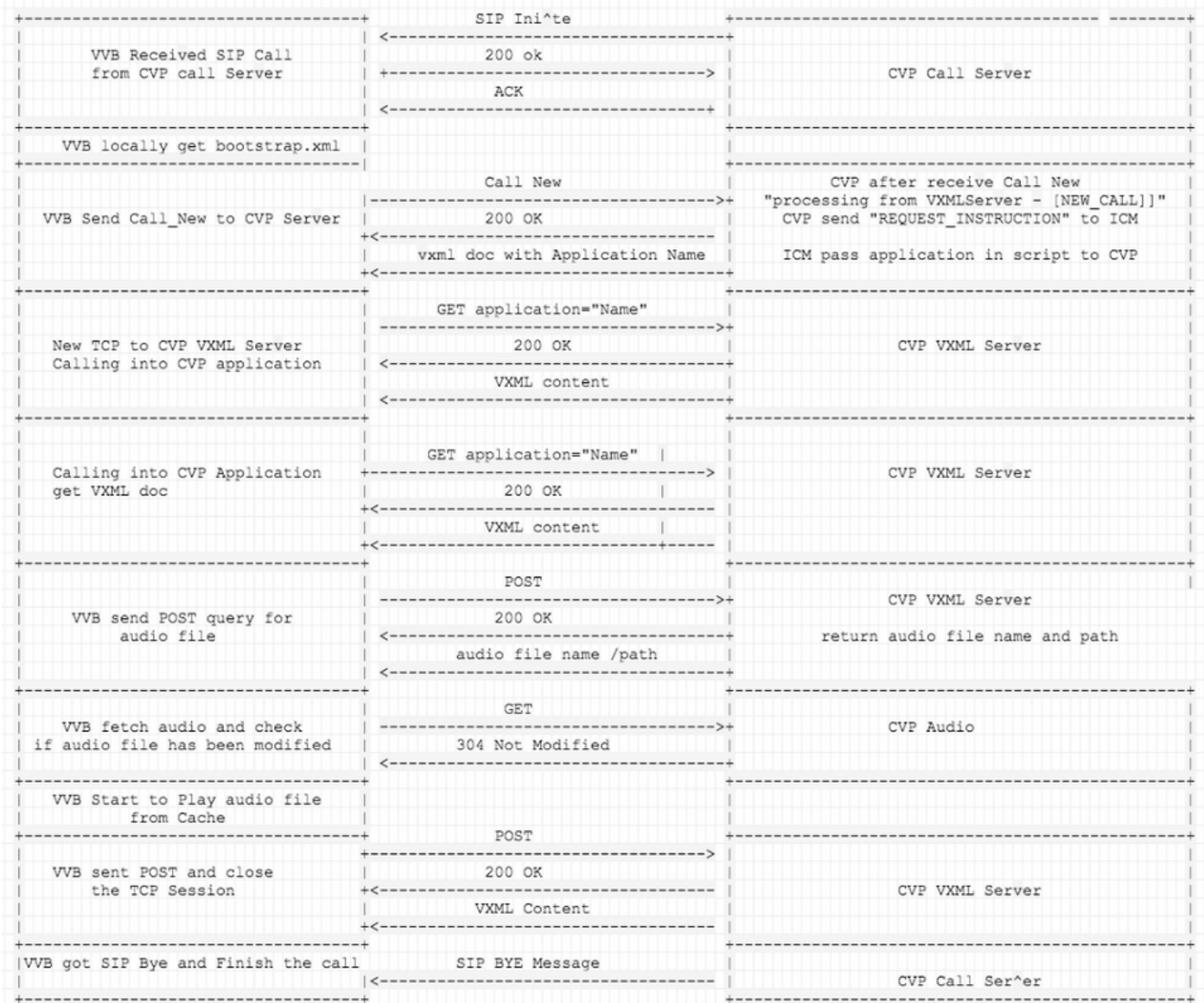
本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您的网络处于活动状态，请确保您了解任何命令的潜在影响

背景信息

呼叫流：

入口网关> CVP >智能联系管理(ICM)>返回VRU标签> CVP > VVB

如图所示，它是全面的呼叫流。



VVB消息

步骤1. VVB从CVP接收SIP邀请并完成交换SIP消息。

```
256317: Oct 23 10:10:36.668 AEST %MIVR-JASMIN-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] NEW_CALL, GUCID=B42C46800001000000000650851430A; GUID=3022800512-0000065536-0000000101-0139543306; CallId=B42C46800001000000000650851430A-150871535521622@10.66.75.49; URI=sip:888811111139@10.66.75.62;transport=tl
```

```
256334: Oct 23 10:10:36.719 AEST %MIVR-JASMIN-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] SIP-ltp92-88881111*, State=ALERTED: Sending 200 OK response.
```

```
256335: Oct 23 10:10:36.785 AEST %MIVR-JASMIN-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] SIP-ltp92-88881111*, State=ALERTED: Processing ACK
```

步骤2. VVB在本地获取bootstrap.vxml。

```
256398: Oct 23 10:10:36.794 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Fetch: file:/opt/cisco/uccx/Documents/System/bootstrap.vxml
```

```
256401: Oct 23 10:10:36.795 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Successfully fetched bytes: 0, duration(s): 0.001, URI:
file:/opt/cisco/uccx/Documents/System/bootstrap.vxml
```

步骤3. VVB将CALL_NEW发送到CVP。

然后，CVP发送到ICM:REQUEST_INSTRUCTION,ICM然后将应用信息传递给CVP。

```
256469: Oct 23 10:10:36.809 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Browser.makeRequest(): got encoded
uri=http://10.66.75.49:7000/CVP/Server?MSG_TYPE=CALL_NEW&CALL_DNIS=888811111139&CALL_ANI=sip%3A60006099%4010.66.75.49%3A5061%3Btransport%3Dtls&ERROR_CODE=0&RECOVERY_VXML=crtp%3A%2FSDocuments%2FRecovery.vxml&CLIENT_TYPE=IOS&CALL_ID=B42C46800001000000000650851430A&CALL_LEGID=B42C46800001000000000650851430A-150871535521622%4010.66.75.49&CALL_UII=&VERSION=Voice_Browser_11_6&PRIMARY=10.66.75.49
```

数据包捕获： [PSH,ACK] VVB到CVP (7000端口)

```
GET
/CVP/Server?MSG_TYPE=CALL_NEW&CALL_DNIS=888811111139&CALL_ANI=sip%3A60006099%4010.66.75.49%3A5061%3Btransport%3Dtls&ERROR_CODE=0&RECOVERY_VXML=crtp%3A%2FSDocuments%2FRecovery.vxml&CLIENT_TYPE=IOS&CALL_ID=B42C46800001000000000650851430A&CALL_LEGID=B42C46800001000000000650851430A-150871535521622%4010.66.75.49&CALL_UII=&VERSION=Voice_Browser_11_6&PRIMARY=10.66.75.49 HTTP/1.1
User-Agent: Cisco Voice Browser/1.0 (Cache activated)
Accept: text/vxml, application/vxml, application/vxml+xml, *; q=.2, */*; q=.2
Host: 10.66.75.49:7000
Connection: keep-alive
```

VVB收到200 OK的FETCH: [PSH,ACK] CVP (7000端口) 到VVB

```
256475: Oct 23 10:10:36.853 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Fetch: HTTP 200 OK
```

数据包捕获：

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Transfer-Encoding: chunked
Date: Sun, 22 Oct 2017 23:35:55 GMT
```

VVB成功获取，并获取CVP应用信息

```
src="http://10.66.75.48:7000/CVP/en-us/./Server" namelist="application callid_dnis_ani "
<var name="application" expr="'HelloWorld'"
```

256479: Oct 23 10:10:36.853 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Successfully fetched bytes: 0, duration(s): 0.044, URI:
http://10.66.75.49:7000/CVP/Server?MSG_TYPE=CALL_NEW&CALL_DNIS=888811111139&CALL_ANI=sip%3A60006099%4010.66.75.49%3A5061%3Btransport%3Dtls&ERROR_CODE=0&RECOVERY_VXML=crtp%3A%2FSDocuments%2FRecovery.vxml&CLIENT_TYPE=IOS&CALL_ID=B42C46800001000000000650851430A&CALL_LEGID=B42C46800001000000000650851430A-150871535521622%4010.66.75.49&CALL_UII=&VERSION=Voice_Browser_11_6&PRIMARY=10.66.75.49

CVP发送VXML文档： [ACK]CVP (7000端口) 到VVB

256480: Oct 23 10:10:36.856 AEST %MIVR-SS_VB-7-UNK:Content of VXML Document:

```
<?xml version="1.0" encoding="iso-8859-1"?>
<vxml version="2.0">
  <var name="MSG_TYPE" expr="'CALL_RESULT'" />
  <var name="CALL_ID" expr="'B42C46800001000000000650851430A'" />
  <var name="CALL_SEQ_NUM" expr="1" />
  <var name="ERROR_CODE" expr="0" />
  <var name="CALLED" />
  <var name="FROM_EXTVXML0" />
  <var name="FROM_EXTVXML1" />
  <var name="FROM_EXTVXML2" />
  <var name="FROM_EXTVXML3" />
  <var name="PODID" />
  <var name="DEBUG" expr="1" />
  <property name="com.cisco.media-logging-id" value="'B42C46800001000000000650851430A'" />
  <property name="fetchaudiodelay" value="2s" />
  <property name="fetchaudiominimum" value="5s" />

  <form id="GS" scope="dialog">
    <property name="com.cisco.tts-server" value="rtsp://tts-en-us/synthesizer"/>
    <property name="com.cisco.asr-server" value="rtsp://asr-en-us/recognizer"/>
    <var name="application" expr="'HelloWorld'"/>
    <var name="callid" expr="'B42C4680000100000000065085143'"/>
    <var name="_dnis" expr="'7001'"/>
    <var name="_ani" expr="'60006099'"/>

    <subdialog name="Server" src="http://10.66.75.48:7000/CVP/en-us/./Server"
      namelist="application callid _dnis _ani ">

      <filled>
        <assign name="document.FROM_EXTVXML0" expr="Server.FromExtVXML0"/>
        <assign name="document.FROM_EXTVXML1" expr="Server.FromExtVXML1"/>
        <assign name="document.FROM_EXTVXML2" expr="Server.FromExtVXML2"/>
        <assign name="document.FROM_EXTVXML3" expr="Server.FromExtVXML3"/>
        <assign name="document.PODID" expr="Server.PodId"/>
        <assign name="document.CALLED" expr="Server.caller_input"/>

        <if cond="Server.caller_input == 'system_unavailable'">
          <assign name="ERROR_CODE" expr="40"/>
        <elseif cond="Server.caller_input == 'app_error'"/>
          <assign name="ERROR_CODE" expr="41"/>
        <elseif cond="Server.caller_input == 'app_hangup'"/>
          <assign name="ERROR_CODE" expr="42"/>
        <elseif cond="Server.caller_input == 'suspended'"/>
```

```

        <assign name="ERROR_CODE" expr="43"/>
    <elseif cond="Server.caller_input == 'no_session_error'"/>
        <assign name="ERROR_CODE" expr="44"/>
    </if>
    <goto next="#TrySubmit"/>
</filled>
</subdialog>

<!-- Event Handling -->
<catch event="telephone.disconnect.hangup">
    <assign name="ERROR_CODE" expr="1"/>
    <goto next="#TrySubmit"/>
</catch>

<catch event="connection.disconnect.hangup">
    <assign name="ERROR_CODE" expr="1"/>
    <goto next="#TrySubmit"/>
</catch>

<catch event="telephone.disconnect">
    <assign name="ERROR_CODE" expr="1"/>
    <goto next="#TrySubmit"/>
</catch>

<catch event="connection.disconnect">
    <assign name="ERROR_CODE" expr="1"/>
    <goto next="#TrySubmit"/>
</catch>

<catch event="error.badfetch">
    <assign name="ERROR_CODE" expr="9"/>
    <if cond="DEBUG == '1'">
    <log> Media Fetch Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
    </if>
    <goto next="#TrySubmit"/>
</catch>

<catch event="com.audium.error.badfetch">
    <assign name="ERROR_CODE" expr="45"/>
    <if cond="DEBUG == '1'">
    <log> Media Fetch Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
    </if>
    <goto next="#TrySubmit"/>
</catch>

<catch event="error.semantic">
    <assign name="ERROR_CODE" expr="10"/>
    <if cond="DEBUG == '1'">
    <log> Semantic Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
    </if>
    <goto next="#TrySubmit"/>
</catch>

<catch event = "error.unsupported.format">
    <assign name="ERROR_CODE" expr="11"/>
    <if cond="DEBUG == '1'">
    <log> Unsupported Format Error: CallID: <value expr="CALL_ID"/>

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                : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
</log>
</if>
<goto next="#TrySubmit"/>
</catch>

<catch event = "error.unsupported.element">
<assign name="ERROR_CODE" expr="12"/>
<if cond="DEBUG == '1'">
<log> Unsupported Element Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
</log>
</if>
<goto next="#TrySubmit"/>
</catch>

<catch event="nomatch">
<assign name="ERROR_CODE" expr="16" />
<goto next="#TrySubmit"/>
</catch>

<noinput>
<assign name="ERROR_CODE" expr="17" />
<goto next="#TrySubmit"/>
</noinput>

<catch event="com.cisco.isn.session.disconnect.abnormal">
<assign name="ERROR_CODE" expr="27"/>
<goto next="#TrySubmit"/>
</catch>

<catch event="telephone.disconnect.hangup.forced">
<assign name="ERROR_CODE" expr="27"/>
<goto next="#TrySubmit"/>
</catch>

<catch event = "com.cisco.isn.session.disconnect.error">
<assign name="ERROR_CODE" expr="28"/>
<goto next="#TrySubmit"/>
</catch>

<catch event="error.unsupported.language">
<assign name="ERROR_CODE" expr="30"/>
<if cond="DEBUG == '1'">
<log> Unsupported Language Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
</log>
</if>
<goto next="#TrySubmit"/>
</catch>

<catch event = "error.com.cisco.media.resource.unavailable.asr">
<assign name="ERROR_CODE" expr="31"/>
<if cond="DEBUG == '1'">
    <log> ASR Media Resource Unavailable Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
</if>
<goto next="#TrySubmit"/>
</catch>

<catch event = "error.com.cisco.media.resource.unavailable.tts">
<assign name="ERROR_CODE" expr="32"/>
<if cond="DEBUG == '1'">

```

```

        <log> TTS Media Resource Unavailable Error: CallID: <value expr="CALL_ID"/>
            : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
</if>
<goto next="#TrySubmit"/>
</catch>

    <catch event = "error.com.cisco.media.resource.failure.asr">
<assign name="ERROR_CODE" expr="31"/>
<if cond="DEBUG == '1'">
    <log> ASR Media Resource Failure Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
</if>
<goto next="#TrySubmit"/>
</catch>

<catch event = "error.com.cisco.media.resource.failure.tts">
<assign name="ERROR_CODE" expr="32"/>
<if cond="DEBUG == '1'">
    <log> TTS Media Resource Failure Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
</if>
<goto next="#TrySubmit"/>
</catch>

<catch event = "error.com.cisco.media.resource">
<assign name="ERROR_CODE" expr="33"/>
<if cond="DEBUG == '1'">
    <log> General Media Resource Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
</if>
<goto next="#TrySubmit"/>
</catch>

<catch event = "error">
<assign name="ERROR_CODE" expr="34"/>
<if cond="DEBUG == '1'">
    <log> General Error: CallID: <value expr="CALL_ID"/>
        : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
    </log>
</if>
<goto next="#TrySubmit"/>
</catch>

</form>

<form id="TrySubmit">
<var name="TryNum" expr="1" />
<var name="MaxTries" expr="1" />

<!--Event Handling -->
    <catch event="error.badfetch">
        <if cond="TryNum == MaxTries">
            <if cond="DEBUG == '1'">
                <log> Error: Exceeded Retries to Application Server. Going to Recovery VXML:
CallID: <value expr="CALL_ID"/>
                    : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
                </log>
            </if>
        </if>
    </catch>

```



```

        </if>
        <goto next="crtp:/SDocuments/Recovery.vxml"/>
    </if>
    <assign name="TryNum" expr="TryNum + 1"/>
    <if cond="DEBUG == '1'">
        <log> Retrying Application Server: CallID: <value expr="CALL_ID"/>
            : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
        </log>
    </if>
    <submit next= "/CVP/Server"
        namelist="MSG_TYPE CALL_ID CALL_SEQ_NUM ERROR_CODE CALLED FROM_EXTVXML0
FROM_EXTVXML1 FROM_EXTVXML2 FROM_EXTVXML3 PODID" fetchtimeout="7s"/>

</catch>

<catch event = "error">
    <if cond="DEBUG == '1'">
        <log> General Error encountered when trying to contact Application Server. Going to
Recovery VXML: CallID: <value expr="CALL_ID"/>
            : CallSeqNum: <value expr="CALL_SEQ_NUM"/>
        </log>
    </if>
    <goto next="crtp:/SDocuments/Recovery.vxml"/>
</catch>

<catch event="telephone.disconnect.hangup">
    <assign name="ERROR_CODE" expr="1"/>
    <submit next= "/CVP/Server"
        namelist="MSG_TYPE CALL_ID CALL_SEQ_NUM ERROR_CODE CALLED FROM_EXTVXML0
FROM_EXTVXML1 FROM_EXTVXML2 FROM_EXTVXML3 PODID" fetchtimeout="7s"/>
</catch>

<catch event="connection.disconnect.hangup">
    <assign name="ERROR_CODE" expr="1"/>
    <submit next= "/CVP/Server"
        namelist="MSG_TYPE CALL_ID CALL_SEQ_NUM ERROR_CODE CALLED FROM_EXTVXML0
FROM_EXTVXML1 FROM_EXTVXML2 FROM_EXTVXML3 PODID" fetchtimeout="7s"/>
</catch>

<!--submit next block -->
<block>
    <submit next= "/CVP/Server"
        namelist="MSG_TYPE CALL_ID CALL_SEQ_NUM ERROR_CODE CALLED FROM_EXTVXML0
FROM_EXTVXML1 FROM_EXTVXML2 FROM_EXTVXML3 PODID" fetchtimeout="7s"/>
</block>

</form>
</vxml>

```

步骤4.新的TCP将VVB连接到CVP VXML服务器，并调用到CVP应用。

```

256573: Oct 23 10:10:36.871 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-
150871535521622] Fetch: http://10.66.75.48:7000/CVP/en-
us/./Server?application=HelloWorld&callid=B42C4680000100000000065085143&_dnis=7001&_ani=600060
99

```

数据包捕获： [PSH,ACK] VVB到CVP [7000端口]:

```
GET /CVP/en-us/./Server?application=HelloWorld&callid=B42C4680000100000000065085143&_dnis=7001&_ani=60006099 HTTP/1.1
User-Agent: Cisco Voice Browser/1.0 (Cache activated)
Accept: text/vxml, application/vxml, application/vxml+xml, *; q=.2, */*; q=.2
Host: 10.66.75.48:7000
Connection: keep-alive
```

CVP向VVB发送200 OK: [PSH,ACK] CVP (7000端口) 到VVB

```
256576: Oct 23 10:10:36.881 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Fetch: HTTP 200 OK
```

数据包捕获 :

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Set-Cookie: JSESSIONID=32868A579F1F48F50A6CC362EBF3F256; Path=/CVP/; HttpOnly
Content-Type: text/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Sun, 22 Oct 2017 23:35:55 GMT
```

CVP发送VXML文档 : calling_into=HelloWorld

```
256581: Oct 23 10:10:36.881 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Successfully fetched bytes: 0, duration(s): 0.01, URI:
http://10.66.75.48:7000/CVP/en-us/./Server?application=HelloWorld&callid=B42C4680000100000000065085143&_dnis=7001&_ani=60006099
```

```
http://10.66.75.48:7000/CVP/en-us/./Server?application=HelloWorld&callid=B42C4680000100000000065085143&_dnis=7001&_ani=60006099
```

```
256582: Oct 23 10:10:36.881 AEST %MIVR-SS_VB-7-UNK:Content of VXML Document:
<?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&calling_into=HelloWorld">
  <catch event="error">
    <var name="audium_action" expr="'custom_disconnect'" />
    <var name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action" />
  />
</catch>
<form>
  <block>
    <assign name="audium_vxmlLog" expr="'" />
    <submit next="/CVP/Server" method="post" namelist="audium_vxmlLog" />
  </block>
</form>
</vxml>
```

步骤5. VVB调用到应用程序并获取VXML文档。

```
256606: Oct 23 10:10:36.884 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Browser.makeRequest(): got encoded
uri=http://10.66.75.48:7000/CVP/Server?audium_root=true&calling_into>HelloWorld
```

数据包捕获： [PSH,ACK] VVB到CVP (7000端口)

```
GET /CVP/Server?audium_root=true&calling_into>HelloWorld HTTP/1.1
Cookie: JSESSIONID=32868A579F1F48F50A6CC362EBF3F256; HttpOnly=
User-Agent: Cisco Voice Browser/1.0 (Cache activated)
Accept: text/vxml, application/vxml, application/vxml+xml, *; q=.2, */*; q=.2
Host: 10.66.75.48:7000
Connection: keep-alive
```

CVP发送200 OK

```
256613: Oct 23 10:10:36.896 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Fetch: HTTP 200 OK
```

数据包捕获： [PSH,ACK] CVP到VVB

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: text/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Sun, 22 Oct 2017 23:35:55 GMT
```

CVP发送VXML文档： [ACK] CVP (7000端口) 到VVB

```
256617: Oct 23 10:10:36.896 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Successfully fetched bytes: 0, duration(s): 0.012, URI:
http://10.66.75.48:7000/CVP/Server?audium_root=true&calling_into>HelloWorld
```

```
256618: Oct 23 10:10:36.901 AEST %MIVR-SS_VB-7-UNK:Content of VXML Document:
```

```
<?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0">
  <script><![CDATA[function getElapsedTime(startTime)
{
  var numMilliseconds = new Date().getTime();
  return numMilliseconds - startTime;
}]]></script>
  <property name="universals" value="help" />
  <var name="audium_vxmlLog" expr="" />
  <var name="audium_element_start_time_millisecs" expr="0" />
  <var name="cisco_vxml_error_count" expr="0" />
  <var name="audium_type" />
  <catch event="vxml.session.error">
```

```

<if cond=" ( cisco_vxml_error_count >= 3 ) ">
  <var name="caller_input" expr="'system_unavailable'" />
  <return namelist="caller_input" />
</if>
<var name="audium_action" expr="'error'" />
<assign name="audium_type" expr="_event" />
<var name="audium_message" expr="_message" />
<assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
<submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="telephone.disconnect.transfer">
  <var name="audium_action" expr="'call_transfer'" />
  <assign name="audium_type" expr="'telephone.disconnect.transfer'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action audium_vxmlLog"
/>
</catch>
<catch event="telephone.disconnect.hangup">
  <var name="audium_action" expr="'hangup'" />
  <assign name="audium_type" expr="'telephone.disconnect'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action audium_vxmlLog"
/>
</catch>
<catch event="telephone.disconnect">
  <var name="audium_action" expr="'hangup'" />
  <assign name="audium_type" expr="'telephone.disconnect'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action audium_vxmlLog"
/>
</catch>
<catch event="help">
  <throw event="nomatch" />
</catch>
<catch event="error.unsupported.object">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.unsupported.language">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.unsupported.format">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />

```

```

    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.unsupported.element">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.unsupported.builtin">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.unsupported">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.semantic">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.noauthorization">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>

```

```

<catch event="error.eventhandler.notfound">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.connection.noroute">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.connection.noresource">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.connection.nolicense">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.connection.noauthorization">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.connection.baddestination">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>

```

```

</if>
<var name="audium_action" expr="'error'" />
<assign name="audium_type" expr="_event" />
<var name="audium_message" expr="_message" />
<assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
<submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.condition.baddestination">
<if cond=" ( cisco_vxml_error_count >= 3 ) ">
<var name="caller_input" expr="'system_unavailable'" />
<return namelist="caller_input" />
</if>
<var name="audium_action" expr="'error'" />
<assign name="audium_type" expr="_event" />
<var name="audium_message" expr="_message" />
<assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
<submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.com.cisco.resource.failure.tts">
<if cond=" ( cisco_vxml_error_count >= 3 ) ">
<var name="caller_input" expr="'system_unavailable'" />
<return namelist="caller_input" />
</if>
<var name="audium_action" expr="'error'" />
<assign name="audium_type" expr="_event" />
<var name="audium_message" expr="_message" />
<assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
<submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.com.cisco.resource.failure.asr">
<if cond=" ( cisco_vxml_error_count >= 3 ) ">
<var name="caller_input" expr="'system_unavailable'" />
<return namelist="caller_input" />
</if>
<var name="audium_action" expr="'error'" />
<assign name="audium_type" expr="_event" />
<var name="audium_message" expr="_message" />
<assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
<submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.com.cisco.media.resource.unavailable">
<if cond=" ( cisco_vxml_error_count >= 3 ) ">
<var name="caller_input" expr="'system_unavailable'" />
<return namelist="caller_input" />
</if>
<var name="audium_action" expr="'error'" />
<assign name="audium_type" expr="_event" />
<var name="audium_message" expr="_message" />
<assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
<submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.com.cisco.handoff.failure">
<if cond=" ( cisco_vxml_error_count >= 3 ) ">
<var name="caller_input" expr="'system_unavailable'" />
<return namelist="caller_input" />
</if>
<var name="audium_action" expr="'error'" />
<assign name="audium_type" expr="_event" />
<var name="audium_message" expr="_message" />

```

```

    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.com.cisco.callhandoff.failure">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.com.cisco.aaa.authorize.failure">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.com.cisco.aaa.authenticate.failure">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.badfetch.https">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error.badfetch.http">
    <if cond=" ( cisco_vxml_error_count >= 3 ) ">
        <var name="caller_input" expr="'system_unavailable'" />
        <return namelist="caller_input" />
    </if>
    <var name="audium_action" expr="'error'" />
    <assign name="audium_type" expr="_event" />
    <var name="audium_message" expr="_message" />
    <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
    <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>

```



```

<catch event="error.badfetch">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="error">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="disconnect.com.cisco.handoff">
  <if cond=" ( cisco_vxml_error_count >= 3 ) ">
    <var name="caller_input" expr="'system_unavailable'" />
    <return namelist="caller_input" />
  </if>
  <var name="audium_action" expr="'error'" />
  <assign name="audium_type" expr="_event" />
  <var name="audium_message" expr="_message" />
  <assign name="cisco_vxml_error_count" expr="cisco_vxml_error_count + 1" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_message audium_action
audium_vxmlLog" />
</catch>
<catch event="connection.disconnect.transfer">
  <var name="audium_action" expr="'call_transfer'" />
  <assign name="audium_type" expr="'connection.disconnect.transfer'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action audium_vxmlLog"
/>
</catch>
<catch event="connection.disconnect.hangup">
  <var name="audium_action" expr="'hangup'" />
  <assign name="audium_type" expr="'connection.disconnect'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action audium_vxmlLog"
/>
</catch>
<catch event="connection.disconnect">
  <var name="audium_action" expr="'hangup'" />
  <assign name="audium_type" expr="'connection.disconnect'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action audium_vxmlLog"
/>
</catch>
<catch event="com.audium.vxml.event">
  <var name="audium_action" expr="'vxml_event'" />
  <var name="audium_error" expr="_message" />
  <assign name="audium_type" expr="_message" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_error audium_action"
/>
</catch>
<catch event="com.audium.error">
  <var name="audium_action" expr="'custom_disconnect'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action" />

```

```
</catch>
<catch event="com.audium.disconnect">
  <var name="audium_action" expr="'custom_disconnect'" />
  <assign name="audium_type" expr="'disconnect.audium'" />
  <submit next="/CVP/Server" method="post" namelist="audium_type audium_action" />
</catch>
</vxml
```

步骤6. VVB发送POST Query for Audio File。

```
256695: Oct 23 10:10:36.914 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-
150871535521622] Fetch: http://10.66.75.48:7000/CVP/Server
256696: Oct 23 10:10:36.914 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-
150871535521622] Setting cookie : JSESSIONID=32868A579F1F48F50A6CC362EBF3F256; HttpOnly=
```

数据包捕获： [PSH,ACK] VVB到CVP (7000端口)

```
POST /CVP/Server HTTP/1.1
User-Agent: Cisco Voice Browser/1.0
Accept: text/vxml, application/vxml, application/vxml+xml, *; q=.2, */*; q=.2
Content-Type: application/x-www-form-urlencoded
Cookie: JSESSIONID=32868A579F1F48F50A6CC362EBF3F256; HttpOnly=
Host: 10.66.75.48:7000
Connection: keep-alive
Content-Length: 15
```

CVP发送VVB 200 OK

数据包捕获： [PSH,ACK] CVP到VVB

```
audium_vxmlLog=HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: text/xml; charset=UTF-8
Transfer-Encoding: chunked
Date: Sun, 22 Oct 2017 23:35:55 GM
```

CVP向VVB内容发送POST查询结果，其中包含音频文件名和源路径。

```
<audio src="https://www.cisco.com/CVP/audio/helloworld_audio.wav">You have successfully
installed the Cisco Unified V X M L server.</audio>
```

VVB日志：

256714: Oct 23 10:10:36.919 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Successfully fetched bytes: 0, duration(s): 0.005, URI:
http://10.66.75.48:7000/CVP/Server

256716: Oct 23 10:10:36.919 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Content of POST query:

audium_vxmlLog=

256717: Oct 23 10:10:36.920 AEST %MIVR-SS_VB-7-UNK:Content of VXML Document:

```
<?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&calling_into=HelloWorld">
  <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="https://www.cisco.com/CVP/audio/helloworld_audio.wav">You have successfully
installed the Cisco Unified V X M L server.</audio>
      </prompt>
      <assign name="audium_vxmlLog" expr="audium_vxmlLog + '|||audio_group$$$' +
'initial_audio_group' + '^'^ + application.getElapsedTime(audium_element_start_time_millisecs)"
/>
      <submit next="/CVP/Server" method="post" namelist="audium_vxmlLog" />
    </block>
  </form>
</vxml>
```

步骤7. VVB获取音频文件并检查音频文件是否已修改。

If-None-Match:带“68192-1468638242000” (来自数据包捕获)

VVB日志:

256798: Oct 23 10:10:36.923 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C46800001000000000650851430A-150871535521622] Fetch: http://10.66.75.48:7000/CVP/audio/helloworld_audio.wav

数据包捕获: [PSH,ACK] VVB到CVP (7000端口)

```
GET /CVP/audio/helloworld_audio.wav HTTP/1.1
Cookie: JSESSIONID=32868A579F1F48F50A6CC362EBF3F256; HttpOnly=
User-Agent: Cisco Voice Browser/1.0 (Cache activated)
Accept: *, */*
If-None-Match: W/"68192-1468638242000"
Cache-Control: max-age=0
Host: 10.66.75.48:7000
Connection: keep-alive
If-Modified-Since: Sat, 16 Jul 2016 03:04:02 GMT
```

数据包： CVP到VVB确认音频文件未修改

```
HTTP/1.1 304 Not Modified (from packet capture)
HTTP Response is from Cache (VVB log )
```

VVB日志：

```
256800: Oct 23 10:10:36.931 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Fetch: HTTP 200 OK
256801: Oct 23 10:10:36.931 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Browser.processHttpResponse() hc is CachedURLConnection
256802: Oct 23 10:10:36.931 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Fetch: HTTP Response is from Cache
```

数据包捕获： [PSH,ACK] CVP到VVB

```
HTTP/1.1 304 Not Modified
Server: Apache-Coyote/1.1
ETag: W/"68192-1468638242000"
Date: Sun, 22 Oct 2017 23:35:55 GMT
```

步骤8. VVB播放音频文件。

```
256805: Oct 23 10:10:36.931 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Play: http://10.66.75.48:7000/CVP/audio/helloworld_audio.wav
```

步骤9. VVB在成功获取音频文件并关闭此TCP会话后发送POST查询。

```
256828: Oct 23 10:10:36.933 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Browser.makeRequest(): else branch
256829: Oct 23 10:10:36.934 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Fetch: http://10.66.75.48:7000/CVP/Server
```

数据包捕获： [PSH,ACK]VVB到CVP (7000端口)

```
POST /CVP/Server HTTP/1.1
User-Agent: Cisco Voice Browser/1.0
Accept: text/vxml, application/vxml, application/vxml+xml, */*; q=.2, */*; q=.2
Content-Type: application/x-www-form-urlencoded
Cookie: JSESSIONID=32868A579F1F48F50A6CC362EBF3F256; HttpOnly=
Host: 10.66.75.48:7000
Connection: keep-alive
Content-Length: 74
```

```
audium_vxmlLog=%7C%7C%7Caudio_group%24%24%24initial_audio_group%5E%5E%5E11
```

CVP发送到VVB 200 OK

数据包捕获 : [PSH,ACK] CVP (7000端口) 到VVB

```
200 OK
Server: Apache-Coyote/1.1
Content-Type: text/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Sun, 22 Oct 2017 23:35:55 GMT
```

```
256846: Oct 23 10:10:36.937 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Fetch: HTTP 200 OK
```

```
256848: Oct 23 10:10:36.937 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Successfully fetched bytes: 0, duration(s): 0.004, URI:
http://10.66.75.48:7000/CVP/Server
```

```
256849: Oct 23 10:10:36.938 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] fetchVxmlDoc :: Closing output stream
```

CVP发送到VVB: CVP返回POST查询内容 :

```
256850: Oct 23 10:10:36.938 AEST %MIVR-SS_VB-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] Content of POST query:
```

```
audium_vxmlLog=%7C%7C%7Caudio_group%24%24%24initial_audio_group%5E%5E%5E11
```

```
256851: Oct 23 10:10:36.938 AEST %MIVR-SS_VB-7-UNK:Content of VXML Document:
```

```
<?xml version="1.0" encoding="UTF-8"?>
<vxml version="2.0" application="/CVP/Server?audium_root=true&calling_into>HelloWorld">
  <catch event="error.com.cisco.callhandoff.failure">
    <cisco-typeaheadflush />
    <submit next="/CVP/Server" method="post" namelist="audium_vxmlLog" />
  </catch>
  <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">
    <object name="dummyobj" classid="builtin://com.cisco.callhandoff">
      <param name="return" expr="true" valuetype="data" />
      <param name="app-uri" expr="'builtin://dummyobj'" valuetype="data" />
      <filled>
        <submit next="/CVP/Server" method="post" namelist="audium_vxmlLog" />
      </filled>
    </object>
```

</form>
</vxml>

步骤10. VVB从CVP接收BYE并完成此呼叫。

256921: Oct 23 10:10:43.139 AEST %MIVR-JASMIN-7-UNK:[CALLID=B42C468000010000000000650851430A-150871535521622] SIP-ltp92-88881111*, State=CONNECTED: Processing BYE from remote party.