

Configuración y resolución de problemas de la señalización E1 R2

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[Introducción](#)

En este documento se muestran los comandos que deben ingresarse progresivamente para implementar la señalización E1 R2. Este documento también ofrece información de Troubleshooting con los comandos debug.

Nota: Antes de que usted utilice este documento, se recomienda que usted primero lea la [teoría de la señalización del E1 R2](#).

[prerrequisitos](#)

[Requisitos](#)

Antes de que usted intente esta configuración, asegúrese de que usted resuelva estos requisitos previos:

- La señalización del r2 se aplica al e1 solamente.
- La señalización del r2 no se soporta en el router del Cisco MC3810.
- Para ejecutar el r2 que señala en los Cisco 2600/3600 Series Router, se requiere este

hardware:VVIC-1MFT-E1 o VVIC-2MFT-E1 o VVIC-2MFT-E1-DI junto con uno de estos módulos de la densidad de la Voz: [NM-HDV](#) (módulo de red de voz de gran densidad) o NM-HD-2VE (Módulo de red de voz/fax de las Comunicaciones IP 2-slot).

- Defina el comando ds0-group (o al CAS-grupo, sobre la base de la versión de Cisco IOS®) en los reguladores del e1 (Routers del AS5x00, del Cisco 2600/3600).
- Utilice el comando cas-custom para personalizar las variantes del E1 R2 para los países diferentes o las regiones.

[Componentes Utilizados](#)

La información en este documento se basa en esta versión de software y hardware:

- Cisco AS5300 con el Cisco IOS Software Release 12.0.7T

Nota: La señalización del E1 R2 fue introducida a los Cisco 2600/3600 Series Router en los Cisco IOS Software Releases 12.1.2XH y 12.1(3)T.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

[Convenciones](#)

Para obtener más información sobre las convenciones del documento, consulte las [Convenciones de Consejos Técnicos de Cisco](#).

[Configurar](#)

Esta sección le presenta con la información que usted puede utilizar para configurar el E1 R2.

Nota: Para encontrar la información adicional en los comandos que este documento utiliza, que refiera a la [herramienta de búsqueda de comandos](#) ([clientes registrados solamente](#)).

[AS5300: Compatibilidad del software Cisco IOS con la tarjeta de función de voz \(VFC\)](#)

Antes de que usted implemente el E1 R2 que señala en un Cisco AS5300 Router, asegúrese de que su versión del Cisco IOS Software sea compatible con el Cisco VCWare en el módulo del e1. Para verificar la compatibilidad de Cisco IOS Software, refiera a la [matriz de compatibilidad del Cisco VCWare para el Cisco AS5300](#). Si las versiones son incompatibles, los módulos del procesador de señales digitales (DSP) en la placa de voz no cargan y el procesamiento de la señal de voz no ocurre.

Típicamente, si la versión del Cisco VCWare es incompatible con el Cisco IOS Software, usted puede ingresar el **comando show vfc slot_number interface** para ver esto tal y como se muestra en de este ejemplo.

```
eefje#show vfc 1 interface Rx: in ptr 18, outptr 0 Tx: in ptr 14 outptr 14 0 in hw queue, 0
queue head , 0 queue tail Hardware is VFC out-of-band channel Interface : state RESET DSP
instance (0x61048284) dsp_number 0, Channel ID 0 TX outstanding 0, max TX outstanding 0 Received
```

18 packets, 1087 bytes, 0 giant packets 0 drops, 0 no buffers, 0 input errors 121 bytes output, 14 frames output 0 bounce errors 0 DSP module 1 is not installed DSP module 2 is not installed DSP module 3 is not installed DSP module 4 is not installed DSP module 5 is not installed

En la primera salida de ejemplo del **comando show vfc slot_number interface**, el número del módulo DSP no es declaraciones instaladas muestra que las versiones son incompatibles para ese número de módulo.

Este segundo conjunto de salida es un ejemplo de los módulos DSP que tienen la versión correcta del Cisco VCWare cargada:

```
eefje#show vfc 1 interface Rx: in ptr 24, outptr 0 TX: in ptr 15 outptr 15 0 in hw queue, 0
queue head , 0 queue tail Hardware is VFC out-of-band channel Interface : state RESET DSP
instance (0x618C6088) dsp_number 0, Channel ID 0 TX outstanding 0, max TX outstanding 0 Received
283288 packets, 15864278 bytes, 0 giant packets 0 drops, 0 no buffers, 0 input errors 1416459
bytes output, 141647 frames output 0 bounce errors 0 Slot 1, DSPM 1 (C542), DSP 1, Channel 1
State RESET, DSP instance (0x61914BDC) TX outstanding 0, max TX outstanding 8 Received 0
packets, 0 bytes, 0 giant packets 0 drops, 0 no buffers, 0 input errors 0 bytes output, 0 frames
output 0 bounce errors 0 Slot 1, DSPM 1 (C542), DSP 2, Channel 1 State RESET, DSP instance
(0x6191510C) TX outstanding 0, max TX outstanding 8 Received 0 packets, 0 bytes, 0 giant packets
0 drops, 0 no buffers, 0 input errors 0 bytes output, 0 frames output 0 bounce errors 0
```

Para marcar la versión instalada del Cisco VCWare, ingrese el comando **show vfc slot_number version vcware**, tal y como se muestra en de este ejemplo:

```
eefje#show vfc 1 version vcware Voice Feature Card in Slot 1: VCware Version : 4.10 ROM Monitor
Version : 1.2 DSPware Version : Technology : C542
```

Nota: Asegúrese la versión de tecnología del Cisco VCWare (c549 o c542) hace juego la tecnología DSP instalada VFC (DSPM-542: soporte de voz de una densidad o DSPM-549: soporte de voz de alta densidad).

[E1 R2 de la configuración](#)

Complete estos pasos para configurar el E1 R2:

1. Configure el e1 del regulador que conecta con la central telefónica automática privada (el PBX) o el Switch. Asegúrese de que el enmarcar y el linecoding del e1 estén fijados correctamente.
2. Para el e1 que enmarca, elija el **CRC** o el **NON-CRC**.
3. Para el linecoding del e1, elija el **HDB3** o el **AMI**.
4. Para la fuente de reloj del e1, elija **interno** o la **línea**. Tenga en cuenta que los diferentes PBX tienen diferentes requisitos en la fuente de reloj.
5. [Configure la señalización de línea.](#)
6. [Configure la señalización entre registros.](#)
7. Personalice la configuración con el **comando cas-custom**.

[Configure la señalización de línea](#)

Utilice esta secuencia de comandos para definir su señalización de línea.

```
eefje(config)#controller E1 0 eefje(config-controller)#ds0-group 1 timeslots 1-15 type ? ...
r2-analog R2 ITU Q411 r2-digital R2 ITU Q421 r2-pulse R2 ITU Supplement 7 ...
```

Ésta es la secuencia de comandos para el Cisco IOS Software Release 11.3.

```
eefje(config)#controller E1 0 eefje(config-controller)#cas-group 1 timeslot 1-15 type ? ...
```

Nota: Si usted actualiza del Cisco IOS Software Release 11.3 a 12.0, el comando `new` substituye el viejo automáticamente.

Señalización entre registros de la configuración

Este ejemplo de la secuencia de comandos ilustra cómo configurar los diversos tipos de señalización entre registros:

```
eefje(config)#controller E1 0 eefje(config-controller)#ds0-group 1 timeslots 1-15 type r2-digital ? dtmf DTMF tone signaling r2-compelled R2 Compelled Register Signaling r2-non-compelled R2 Non Compelled Register Signaling r2-semi-compelled R2 Semi Compelled Register Signaling
```

La implementación de Cisco de la señalización del r2 tiene soporte del Dialed Number Identification Service (DNIS) habilitado por abandono. Si usted habilita la opción de la identificación de número automática (ANI), la recolección de información DNIS todavía se realiza. La especificación de la opción ANI no inhabilita la recopilación de DNIS. El DNIS es el número se llama que. El ANI es el número del llamador. Por ejemplo, si usted configura a un router llamado A para llamar a un router llamado B, después el número DNIS se asigna al router B y el número ANI se asigna al router que el A. ANI es similar al Identificador de llamada.

Personalización de los enlaces E1 R2 con el comando cas-custom

El subcomandos del comando `cas-custom` se utiliza para acomodar las variantes de país. También se utilizan para personalizar los parámetros del Señalización asociada al canal (CAS). Esta secuencia de comandos ilustra cómo usted puede ver todas las opciones del **comando cas-custom**.

```
eefje(config)#controller E1 0 eefje(config-controller)#cas-custom 1 eefje(config-ctrl-cas)#? CAS custom commands: ani-digits Expected number of ANI digits ani-timeout Timeout for ANI digits answer-guard-time Wait Between Group-B Answer Signal And Line Answer answer-signal Answer signal to be used caller-digits Digits to be collected before requesting CallerID category Category signal country Country Name debounce-time Debounce Timer default Set a command to its defaults dnis-complete Send I-15 after DNIS digits for dial-out dnis-digits Expected number of DNIS digits exit Exit from cas custom mode groupa-callerid-end Send Group-A Caller ID End invert-abcd invert the ABCD bits before TX and after rx ka kA Signal kd KD Signal metering R2 network is sending metering signal nc-congestion Non Compelled Congestion signal no Negate a command or set its defaults proceed-to-send Suppress proceed-to-send signal for pulsed line signaling release-ack Send Release Acknowledgment to Clear Forward release-guard-time Release Guard Timer request-category DNIS Digits to be collected before requesting category seizure-ack-time Seizure to Acknowledge timer unused-abcd Unused ABCD bit values
```

Para más información sobre los parámetros de [comando cas-custom, refiérase.](#)

Diagrama de la red

Este documento utiliza esta configuración de red:

Configuraciones

Con el fin de este documento, éstas son las tres diversas configuraciones del r2 que se muestran a través de la interfaz del e1:

- [Digital non-compelled del r2](#)
- [R2 Digital Semi-obligada](#)
- [R2 ANI obligado Digitaces](#)

Las configuraciones se han modificado para mostrar solamente a la información que este documento discute.

eefje configurado para el digital non-compelled del r2

```
hostname eefje
!
controller E1 0
  clock source line primary
  dso-group 1 timeslots 1-15 type r2-digital r2-non-
  compelled
  cas-custom 1
  !--- For more information on these commands !--- refer
  to ds0-group and cas-custom. ! voice-port 0:1 cptone BE
  !--- The cptone command is country specific. For more !-
  -- information on this command, refer to cptone. !
dial-peer voice 123 pots destination-pattern 123 direct-
inward-dial port 0:1 prefix 123 ! dial-peer voice 567
voip destination-pattern 567 session target ipv4:2.0.0.2
!
```

eefje configurado para el r2 Digital Semi-obligada

```
hostname eefje
!
controller E1 0
  clock source line primary
  ds0-group 1 timeslots 1-15 type r2-digital r2-semi-
  compelled
  cas-custom 1
  !--- For more information on these commands !--- refer
  to ds0-group and cas-custom. ! voice-port 0:1 cptone BE
  !--- The cptone command is country specific. For more !-
  -- information on this command, refer to cptone. dial-
  peer voice 123 pots destination-pattern 123 direct-
  inward-dial port 0:1 prefix 123 ! dial-peer voice 567
  voip destination-pattern 567 session target ipv4:2.0.0.2
  !
```

eefje configurado para el r2 ANI obligado Digitaces

```
hostname eefje
! controller E1 0 clock source line primary ds0-group
1 timeslots 1-15 type r2-digital r2-compelled ani cas-
custom 1
  !--- For more information on these commands !--- refer
  to ds0-group and cas-custom. voice-port 0:1 cptone BE
  !--- The cptone command is country specific. For more !-
  -- information on this command, refer to cptone. dial-
  peer voice 123 pots destination-pattern 123 direct-
  inward-dial port 0:1 prefix 123 ! dial-peer voice 567
  voip destination-pattern 567 session target ipv4:2.0.0.2
  !
```

Verificación

Actualmente, no hay un procedimiento de verificación disponible para esta configuración.

Troubleshooting

En esta sección encontrará información que puede utilizar para solucionar problemas de

configuración.

Errores del E1 R2 del Troubleshooting

Ésta es la información de Troubleshooting relevante a esta configuración. Siga estas instrucciones para resolver problemas su configuración.

1. Verifique que el e1 0 del regulador esté para arriba. Si está abajo, marque enmarcar, codificación de línea, fuente de reloj, alarma, substituye el cable, vuelven a sentar el indicador luminoso LED amarillo de la placa muestra gravedad menor, y así sucesivamente. Utilice el documento de la [Personalización de los links E1 R2 con el comando cas-custom](#) como referencia.
2. Si usted utiliza un AS5300, marque que el DSPs está instalado correctamente con el **comando show vfc slot number interface**.
3. Configure el Direct Inward Dial (HIZO) en el par del Servicio telefónico sencillo antiguo (POTS), para los dígitos recibidos eligieran a un peer saliente.
4. Especifique el **cptone** (el **cptone** es específico para su país) en los puertos de voz. Un **comando cptonecountry** debe ser configurado para hacer juego el **comando cas-custom country**. Los parámetros configurados del **cptone** los tonos de progreso de llamada para un país determinado, y lo que es más importante fijan la codificación a la uno-ley o a la ley u, que dependen del país. La codificación predeterminada para los E.E.U.U. es ley u.
5. Disposiciones de la Línea de coincidencia y de la señalización de registro a la configuración del switch.
6. Gire algunos de los **debugs** mostrados en este documento y estudie las salidas.
7. Marque para saber si hay comunicación entre el router y el PBX o conmute: ¿La línea está fija? ¿El router recibe/envía dígitos? Descubra que echan a un lado los claros la llamada. Si es posible, utilice las últimas versiones de Cisco IOS Software disponibles en el cisco.com.

Comandos debug y show

La herramienta [Output Interpreter](#) (sólo para clientes [registrados](#)) permite utilizar algunos comandos "show" y ver un análisis del resultado de estos comandos.

Nota: Antes de que usted publique los **comandos debug**, refiera a la [información importante en los comandos Debug](#).

Nota: Para el Cisco IOS Software Release 12.0, utilice estos **debugs**:

- **debug cas** - Para la señalización de línea.
- **debug csm voice** - Para la señalización entre registros.
- orden **todo incluido del vtsp del debug** tener la salida de todos los mensajes (dígitos) intercambiados entre el PBX y el router.

Para IOS 11.3 de la versión de Cisco IOS Software, utilice estos comandos:

- **módem-mgmt csm debug-RBS** - Para la señalización de línea (usted necesidad de especificar el **servicio interno** en el modo de configuración primero.).
- **debug csm voice** - Para la señalización entre registros.
- orden **todo incluido del vtsp del debug** tener la salida de todos los mensajes (dígitos) intercambiados entre el PBX y el router.

Para las Plataformas AS5400 y AS5350, utilice estos debugs:

- haga el debug del r2 del sigsm - Para la señalización entre registros
- haga el debug de la orden todo incluido del vtsp para tener la salida de todos los mensajes (dígitos) intercambiados entre el PBX y el router.

[Ejemplo de resultado del comando debug](#)

Puesto que hay tres diversas configuraciones mostradas previamente en este documento, aquí están tres diversos debugs:

[Digital non-compelled del r2: Llamada entrante a 567](#)

Para entender esta salida de los debugs mejor, refiera a la [teoría de la señalización del E1 R2](#).

```
eefje#show debug CAS: Channel Associated Signaling debugging is on CSM Voice: Voice Call
Switching Module debugging is on Voice Telephony session debugging is on Voice Telephony dsp
debugging is on Voice Telephony error debugging is on eefje# eefje# eefje# Jan 6 10:41:28.677:
from NEAT(0): (0/0): Rx SEIZURE (ABCD=0001) Jan 6 10:41:28.717: VDEV_ALLOCATE: failed to
allocate a device Jan 6 10:41:28.717: VDEV_ALLOCATE: 1/28 is allocated Jan 6 10:41:28.721:
csm_vtsp_init_tdm (voice_vdev=0x620BF874) Jan 6 10:41:28.721: csm_vtsp_init_tdm:
dsprm_tdm_allocate: tdm slot 2, dspm 1, dsp 5, dsp_channel 1 Jan 6 10:41:28.721:
csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm stream 5, channel 3, bank 1, bp_channel 4, BP_stream
255 Jan 6 10:41:28.721: CSM_RX_CAS_EVENT_FROM_NEAT:(cid0018): EVENT_CALL_DIAL_IN at slot 2 and
port 16 Jan 6 10:41:28.721: CSM_PROC_IDLE: CSM_EVENT_START_DIGIT_COLLECT at slot 2, port 16 Jan
6 10:41:28.721: csm_vtsp_start_digit_collect (voice_vdev=0x620BF874) Jan 6 10:41:28.721: Enter
csm_connect_pri_vdev function Jan 6 10:41:28.721: csm_connect_pri_vdev:tdm_allocate_BP_ts()call.
BP TS allocated at BP_stream0, BP_Ch28,vdev_common 0x6 20BF8E4 Jan 6 10:41:28.721: to
NEAT:(cid0018) EVENT_CHANNEL_LOCK for slot0 ctrl0 chan0 Jan 6 10:41:28.721:
vtsp_do_call_setup_ind Jan 6 10:41:28.721: vtsp_do_call_setup_ind: Call ID=65681, guid=61FAF610
Jan 6 10:41:28.721: vtsp_do_call_setup_ind: type=0, under_spec=0, name=, id0=0, id1=0, id2=0,
calling=, called= Jan 6 10:41:28.721: vtsp_do_call_setup_ind: redirect DN = reason =
0vtsp_open_voice_and_set_params Jan 6 10:41:28.721: dsp_close_voice_channel: [0:1:0]
packet_len=8 channel_id =8529 packet_id=75 Jan 6 10:41:28.721: dsp_open_voice_channel_20:
[0:1:0] packet_Len=16 channel_id =8529 packet_id=74 alaw_ulaw_select=1
associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 6 10:41:28.721:
dsp_encap_config_20: [0:1:0] packet_Len=24 channel_id=8529 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 10:41:28.721: dsp_set_payout: [0:1:0]
packet_Len=18 channel_id=8529 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 6
10:41:28.721: dsp_echo_canceller_control: [0:1:0] packet_Len=10 channel_id=8529 packet_id=66
flags=0x0 Jan 6 10:41:28.721: dsp_set_gains: [0:1:0] packet_Len=12 channel_id=8529 packet_id=91
in_gain=0 out_gain=0 Jan 6 10:41:28.721: dsp_vad_enable: [0:1:0] packet_Len=10 channel_id=8529
packet_id=78 thresh=-38 Jan 6 10:41:28.721: dsp_voice_mode: [0:1:0] packet_Len=24
channel_id=8529 packet_id=73 coding_type=1 voice_field_size=80 V AD_flag=0 echo_length=64
comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0vtsp_do_r2_start_digit():
dsp_dtmf_mode() dsp_dtmf_mode(VTSP_TONE_R2_MF_FORWARD_MODE) Jan 6 10:41:28.725: dsp_dtmf_mode:
[0:1:0] packet_Len=10 channel_id=8529 packet_id=65
dtmf_or_mf=1vtsp_do_r2_start_digit():fsm_push(vtsp_r2_state_table) Jan 6 10:41:28.725:
csm_vtsp_call_setup_resp (vdev_info=0x620BF874, vtsp_cdb=0x621C5F3C) Jan 6 10:41:28.725:
csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0,BP_Ch28 Jan 6 10:41:28.725:
csm_vtsp_call_setup_resp:dst_tdm_chnl call. BP TS allocatedat stream 5, chan 3,BP_stream 255,
BP_ch 4 Jan 6 10:41:28.725: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream
5, chan 3,BP_stream 0, BP_ch 28 Jan 6 10:41:28.725: CSM_PROC_IC1_COLLECT_ADDR_INFO:
CSM_EVENT_MODEM_OFFHOOK (DNIS=, ANI=) at slot 2, port 16 Jan 6 10:41:28.725: R2 Incoming
Voice(2/16): DSX (E1 0:0): STATE: R2_IN_IDLE R2 Got Event R2_START Jan 6 10:41:28.821:
CSM_RX_CAS_EVENT_FROM_NEAT:(0018):EVENT_START_RX_TONE at slot 2 and port 16 Jan 6 10:41:28.821:
from NEAT(0): (0/0): TX SEIZURE_ACK (ABCD=1101) !--- Digit 5 is sent: Forward Signal Group I-5.
Jan 6 10:41:29.233: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=5,
rtp_timestamp=0x0CA95D43 dc_digit_up Jan 6 10:41:29.233: csm_vtsp_digit_ready_up
```

(vtsp_cdb=0x621C5F3C) received digit (5) Jan 6 10:41:29.233: CSM voice (2/16): Rcvd Digit detected(5) Jan 6 10:41:29.233: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event 5** Jan 6 10:41:29.365: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=5, duration=8321dc_digit Jan 6 10:41:29.365: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (5) Jan 6 10:41:29.365: CSM voice (2/16): Rcvd Digit detected(5) Jan 6 10:41:29.365: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit 6 is sent: Forward Signal Group I-6.** Jan 6 10:41:29.593: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=6**, rtp_timestamp=0x0CA95D43 dc_digit_up Jan 6 10:41:29.593: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C) received digit (6) Jan 6 10:41:29.593: CSM voice (2/16): Rcvd Digit detected(6) Jan 6 10:41:29.593: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event 6** Jan 6 10:41:29.725: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=6, duration=8321dc_digit Jan 6 10:41:29.725: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (6) Jan 6 10:41:29.725: CSM voice (2/16): Rcvd Digit detected(6) Jan 6 10:41:29.725: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit 7 is sent: Forward Signal Group I-7.** Jan 6 10:41:29.953: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=7**, rtp_timestamp=0x0CA95D43 dc_digit_up Jan 6 10:41:29.953: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C) received digit (7) Jan 6 10:41:29.953: CSM voice (2/16): Rcvd Digit detected(7) Jan 6 10:41:29.953: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE:R2_IN_COLLECT_DNIS R2 Got Event 7** Jan 6 10:41:30.085: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=7, duration=8321dc_digit Jan 6 10:41:30.085: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C)received digit (7) Jan 6 10:41:30.085: CSM voice (2/16): Rcvd Digit detected(7) Jan 6 10:41:30.085: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Timeout: 3 seconds (default timer - AS5300 assumes DNIS is finished).** Jan 6 10:41:32.953: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_TIMER !--- Send digit 6: Backward Signal Group B-6 (subscriber's line free-charge).** Jan 6 10:41:32.953: vtsp_r2_generate_digits: vdev_common=0x620BF8E4, string=567dc_dial() vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 6#** Jan 6 10:41:32.953: dsp_dtmf_dialing: [0:1:0] packet_Len=36 channel_id=8529 packet_id=90 string=6# digits=2, time_on=150, time_off=30 Jan 6 10:41:32.953:& digit=e, components=2, freq_of_first=900, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 6 10:41:32.953: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6 10:41:33.313: vtsp_process_dsp_message: **MSG_TX_DIALING_DONE dc dialing_done()** Jan 6 10:41:33.313: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE:R2_IN_ANSWER_PULSE R2 Got Event R2_DIGITS_GENR2_ALERTING** Jan 6 10:41:34.313: R2 Incoming Voice(2/16): DSX (E1 0:0): **STATE: R2_IN_ANSWER_PULSE R2 Got Event R2_TONE_TIMER** Jan 6 10:41:34.313: R2_IN_IDLE:2 r2_in_connect called Jan 6 10:41:34.313: CSM_PROC_IC1_COLLECT_ADDR_INFO: CSM_EVENT_ADDR_INFO_COLLECTED (DNIS=567, ANI=) at slot 2, port 16 Jan 6 10:41:34.313: vtsp_tsp_call_accept_check (sdb=0x61B8F0E0, calling_number= called_number=567): peer_tag=0 Jan 6 10:41:34.313: VDEV_ALLOCATE: failed to allocate a device Jan 6 10:41:34.313: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 10:41:34.313: VDEV_ALLOCATE: failed to allocate a device Jan 6 10:41:34.313: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 10:41:34.313: VDEV_ALLOCATE: failed to allocate a device Jan 6 10:41:34.313: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 10:41:34.313: CSM_PROC_IC3_WAIT_FOR_RES_RESP: CSM_EVENT_RESOURCE_OK at slot 2, port 16 Jan 6 10:41:34.313: vtsp_ic_switch : (voice_vdev= 0x620BF874) Jan 6 10:41:34.313: vtsp_tsp_call_switch_ind (cdb=0x621C5F3C, tsp_info=0x620BF874, calling_number= called_number=567 redir ect_number=): peer_tag=123dc_switch: fsm_pop() Jan 6 10:41:34.313: vtsp_do_call_setup_ind Jan 6 10:41:34.313: vtsp_do_call_setup_ind: Call ID=65683, guid=61FAF610 Jan 6 10:41:34.313: vtsp_do_call_setup_ind: type=0, under_spec=0, name=ab^Lx, id0=1, id1=0, id2=0, calling=123, called=567 Jan 6 10:41:34.317: dsp_cp_tone_off: [] packet_Len=8 channel_id=8529 packet_id=71 Jan 6 10:41:34.317: dsp_idle_mode: [] packet_Len=8 channel_id=8529 packet_id=68 Jan 6 10:41:34.317: dsp_close_voice_channel: [] packet_Len=8 channel_id=8529 packet_id=75 Jan 6 10:41:34.317: vtsp_timer_stop: 67475758 Jan 6 10:41:34.317: csm_vtsp_call_setup_resp (vdev_info=0x620BF874, vtsp_cdb=0x621C5F3C) Jan 6 10:41:34.317: csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch28 Jan 6 10:41:34.317: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 3,BP_stream 0, BP_ch 28 Jan 6 10:41:34.317: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 3,BP_stream 0, BP_ch 28vt sp_open_voice_and_set_params Jan 6 10:41:34.317: dsp_close_voice_channel: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=75 Jan 6 10:41:34.317: dsp_open_voice_channel_20: [0:1 (54)] packet_Len=16 channel_id=8529 packet_id=74 alaw_ulaw_select=1 associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 6 10:41:34.317: dsp_encap_config_20: [0:1 (54)] packet_Len=24 channel_id=8529 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 10:41:34.317: dsp_set_playout: [0:1 (54)] packet_Len=18 channel_id=8529 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 6


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10:41:34.317: dsp_echo_canceller_control: [0:1 (54)] packet_Len=10 channel_id=8529 packet_id=66
flags=0x0 Jan 6 10:41:34.317: dsp_set_gains: [0:1 (54)] packet_Len=12 channel_id=8529
packet_id=91 in_gain=0 out_gain=0 Jan 6 10:41:34.317: dsp_vad_enable: [0:1 (54)] packet_Len=10
channel_id=8529 packet_id=78 thresh=-38act_proceeding Jan 6 10:41:34.321:
csm_vtsp_call_proceeding:DST_tdm_chnl call. BP TS allocatedstream 5, chan 3,BP_stream 0, BP_ch
28act_alert Jan 6 10:41:34.345: vtsp_ring_noan_timer_start: 67475761 Jan 6 10:41:34.345:
csm_vtsp_call_alert (vtsp_cdb=0x621C5F3C)act_bridge act_caps_ind Jan 6 10:41:34.589:
act_caps_ind:Encap 1, Vad 2, Codec 0x4, CodecBytes 20, FaxRate 2, FaxBytes 20 SignalType 0
DtmfRelay 1, Modem lact_caps_ack Jan 6 10:41:34.589: dsp_idle_mode: [0:1 (54)] packet_Len=8
channel_id=8529 packet_id=68 Jan 6 10:41:34.589: act_caps_ack: codec = 15, ret = 1 Jan 6
10:41:34.589: dsp_cp_tone_off: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=71 Jan 6
10:41:34.589: dsp_idle_mode: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=68 Jan 6
10:41:34.589: dsp_encap_config_20: [0:1 (54)] packet_Len=24 channel_id=8529 packet_id=92
TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 10:41:34.589:
dsp_voice_mode: [0:1 (54)] packet_Len=24 channel_id=8529 packet_id=73 coding_type=20
voice_field_size=20 VAD_flag=1 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2
AGC_flag=0act_alert_connect Jan 6 10:41:36.857: vtsp_ring_noan_timer_stop: 67476012 Jan 6
10:41:36.857: dsp_cp_tone_off: [0:1 (54)] packet_Len=8 channel_id=8529 packet_id=71 Jan 6
10:41:36.857: csm_vtsp_call_connect (vtsp_cdb=0x621C5F3C, voice_vdev=0x620BF874) Jan 6
10:41:36.857: CSM_IC5_WAIT_FOR_SWITCH_OVER: CSM_EVENT_MODEM_OFFHOOK at slot 2, port 16 Jan 6
10:41:36.917: CSM_RX_CAS_EVENT_FROM_NEAT:(0018): EVENT_CHANNEL_CONNECTED at slot 2 and port 16
Jan 6 10:41:36.917: CSM_PROC_IC6_WAIT_FOR_CONNECT: CSM_EVENT_DSX0_CONNECTED at slot 2, port 16
Jan 6 10:41:36.921: from NEAT(0): (0/0): TX ANSWERED(ABCD=0101) eefje#
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[R2 Digital Semi-obligada: Llamada entrante a 567](#)

Para entender esta salida de los debugs mejor, refiera a la [teoría de la señalización del E1 R2](#).

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eefje#show debug CAS: Channel Associated Signaling debugging is on CSM Voice: Voice Call
Switching Module debugging is on Voice Telephony session debugging is on Voice Telephony dsp
debugging is on Voice Telephony error debugging is on eefje# eefje# eefje# Jan 6 09:53:42.389:
from NEAT(0): (0/2): Rx SEIZURE(ABCD=0001) Jan 6 09:53:42.433: VDEV_ALLOCATE: failed to allocate
a device Jan 6 09:53:42.433: VDEV_ALLOCATE: 1/27 is allocated Jan 6 09:53:42.433:
csm_vtsp_init_tdm (voice_vdev=0x620BF320) Jan 6 09:53:42.433: csm_vtsp_init_tdm:
dsprm_tdm_allocate: tdm slot 2, dspm 1, dsp 4, dsp_channel 4 Jan 6 09:53:42.433:
csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm stream 7, channel 0, bank 4, BP_channel 3, BP_stream
255 Jan 6 09:53:42.433: CSM_RX_CAS_EVENT_FROM_NEAT:(cid0017): EVENT_CALL_DIAL_IN at slot 2 and
port 15 Jan 6 09:53:42.433: CSM_PROC_IDLE: CSM_EVENT_START_DIGIT_COLLECT at slot 2, port 15 Jan
6 09:53:42.433: csm_vtsp_start_digit_collect (voice_vdev=0x620BF320) Jan 6 09:53:42.433: Enter
csm_connect_pri_vdev function Jan 6 09:53:42.433: csm_connect_pri_vdev:tdm_allocate_BP_Ts()call.
BP TS allocated at BP_stream0, BP_Ch27,vdev_common 0x6 20BF390 Jan 6 09:53:42.433: to
NEAT:(cid0017) EVENT_CHANNEL_LOCK for slot0 ctrl0 chan2 Jan 6 09:53:42.433:
vtsp_do_call_setup_ind Jan 6 09:53:42.433: vtsp_do_call_setup_ind: Call ID=65675, guid=61FAF610
Jan 6 09:53:42.433: vtsp_do_call_setup_ind: type=0, under_spec=0, name=, id0=0, id1=0, id2=0,
calling=, called= Jan 6 09:53:42.433: vtsp_do_call_setup_ind: redirect DN = reason =
0vtsp_open_voice_and_set_params Jan 6 09:53:42.433: dsp_close_voice_channel: [0:1:2]
packet_Len=8 channel_id=8516 packet_id=75 Jan 6 09:53:42.433: dsp_open_voice_channel_20: [0:1:2]
packet_Len=16 channel_id=8516 packet_id=74 alaw_ulaw_select=1 associated_signaling_channel=0
time_slot=1 serial_port=1 Jan 6 09:53:42.433: dsp_encap_config_20: [0:1:2] packet_Len=24
channel_id=8516 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0
Jan 6 09:53:42.433: dsp_set_playout: [0:1:2] packet_Len=18 channel_id=8516 packet_id=76 mode=1
initial=60 min=4 max=200 fax_nom=300 Jan 6 09:53:42.433: dsp_echo_canceller_control: [0:1:2]
packet_Len=10 channel_id=8516 packet_id=66 flags=0x0 Jan 6 09:53:42.437: dsp_set_gains:[0:1:2]
packet_Len=12 channel_id=8516 packet_id=91 in_gain=0 out_gain=0 Jan 6 09:53:42.437:
dsp_vad_enable: [0:1:2] packet_Len=10 channel_id=8516 packet_id=78 thresh=-38 Jan 6
09:53:42.437: dsp_voice_mode: [0:1:2] packet_Len=24 channel_id=8516 packet_id=73 coding_type=1
voice_field_size=80 VAD_flag=0 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2
AGC_flag=0vtsp_do_r2_start_digit(): dsp_dtmf_mode() dsp_dtmf_mode(VTSP_TONE_R2_MF_FORWARD_MODE)
Jan 6 09:53:42.437: dsp_dtmf_mode: [0:1:2] packet_Len=10 channel_id=8516 packet_id=65
dtmf_or_mf=1vtsp_do_r2_start_digit(): fsm_push(vtsp_r2_state_table) Jan 6 09:53:42.437:
csm_vtsp_call_setup_resp (vdev_info=0x620BF320, vtsp_cdb=0x621C5F3C) Jan 6 09:53:42.437:
csm_vtsp_call_setup_resp:vdev_common BP TS allocatedatBP_stream0, BP_Ch27 Jan 6 09:53:42.437:
csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 7, chan 0,BP_stream 255,
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BP_ch 3 Jan 6 09:53:42.437: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 7, chan 0,BP_stream 0, BP_ch 27 Jan 6 09:53:42.437: CSM_PROC_IC1_COLLECT_ADDR_INFO: CSM_EVENT_MODEM_OFFHOOK (DNIS=, ANI=) at slot 2, port 15 Jan 6 09:53:42.437: R2 Incoming Voice(2/15): DSX (E1 0:2): STATE:R2_IN_IDLE R2 Got Event R2_START Jan 6 09:53:42.533: CSM_RX_CAS_EVENT_FROM_NEAT:(0017):EVENT_START_RX_TONE at slot 2 and port 15 Jan 6 09:53:42.533: from NEAT(0): (0/2): **TX SEIZURE_ACK (ABCD=1101) !--- Digit 5 is sent: Forward Signal Group I-5.** Jan 6 09:53:42.641: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=5, rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:42.641: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C) received digit (5) Jan 6 09:53:42.641: CSM voice (2/15): Rcvd Digit detected(5) Jan 6 09:53:42.641: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event 5 !--- Digit 1 sent (pulse): Backward Signal Group A-1 (Send next digit) !--- "# this indicates that it is a pulse).** Jan 6 09:53:42.641: vtsp_r2_generate_digits: vdev_common=0x620BF390, string=5dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 1# Jan 6 09:53:42.641: dsp_dtmf_dialing: [0:1:2] packet_Len=36 channel_id=8516 packet_id=90 string=1# digits=2, time_on=150, time_off=30 Jan 6 09:53:42.641: digit=` , components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 6 09:53:42.641: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6 09:53:42.741: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=5, duration=8291dc_digit Jan 6 09:53:42.741: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (5) Jan 6 09:53:42.741: CSM voice (2/15): Rcvd Digit detected(5) Jan 6 09:53:42.741: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit 6 is sent: Forward Signal Group I.** Jan 6 09:53:42.881: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=6, rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:42.881: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C)received digit (6) Jan 6 09:53:42.881: CSM voice (2/15): Rcvd Digit detected(6) Jan 6 09:53:42.881: R2 Incoming Voice(2/15): DSX (E1 0:2): STATE:R2_IN_COLLECT_DNIS R2 Got Event 6 !--- Digit 1 sent (pulse): Backward Signal Group A-1. (Send next digit.) Jan 6 09:53:42.881: vtsp_r2_generate_digits: vdev_common=0x620BF390, string=56dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 1# Jan 6 09:53:42.881: dsp_dtmf_dialing: [0:1:2] packet_Len=36 channel_id=8516 packet_id=90 string=1# digits=2, time_on=150, time_off=30 Jan 6 09:53:42.881: digit=` , components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 6 09:53:42.881: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6 09:53:42.981: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=6, duration=8291dc_digit Jan 6 09:53:42.981: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (6) Jan 6 09:53:42.981: CSM voice (2/15): Rcvd Digit detected(6) Jan 6 09:53:42.981: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF !--- Digit 7 is sent: Forward Signal Group I-7.** Jan 6 09:53:43.121: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=7,** rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:43.121: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C)received digit (7) Jan 6 09:53:43.121: CSM voice (2/15): Rcvd Digit detected(7) Jan 6 09:53:43.121: R2 Incoming Voice(2/15): DSX (E1 0:2): STATE:R2_IN_COLLECT_DNIS R2 Got Event 7 !--- Send digit 1 (pulse): Backward Signal Group A-1. Jan 6 09:53:43.121: vtsp_r2_generate_digits: vdev_common=0x620BF390, string=567dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 1# Jan 6 09:53:43.121: dsp_dtmf_dialing: [0:1:2] packet_Len=36 channel_id=8516 packet_id=90 string=1# digits=2, time_on=150, time_off=30 Jan 6 09:53:43.121: digit=` , components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 6 09:53:43.121: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 6 09:53:43.221: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=7, duration=8291dc_digit Jan 6 09:53:43.221: csm_vtsp_digit_ready (vtsp_cdb=0x621C5F3C) received digit (7) Jan 6 09:53:43.221: CSM voice (2/15): Rcvd Digit detected(7) Jan 6 09:53:43.221: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 6 09:53:43.489: vtsp_process_dsp_message: MSG_TX_DIALING_DONEdc_dialing_done() **!--- Timeout is 3 seconds.** Jan 6 09:53:46.121: R2 Incoming Voice(2/15): DSX (E1 0:2): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_TIMER !--- Digit 3 sent(pulse): Backward Signal Group A-3. !--- (Address-complete, changeover to reception of Group-B signals).** Jan 6 09:53:46.121: vtsp_r2_generate_digits: vdev_common=0x620BF390, string=567dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 3# Jan 6 09:53:46.121: dsp_dtmf_dialing: [0:1:2] packet_Len=36 channel_id=8516 packet_id=90 string=3# digits=2, time_on=150, time_off=30 Jan 6 09:53:46.121: digit=b, components=2, freq_of_first=1020, freq_of_second=900, amp_of_first=8192, amp_of_second=8192 Jan 6 09:53:46.121: digit=o, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 **!--- Digit 1 is sent: Forward Signal Group II-1 !--- (subscriber without priority).** Jan 6 09:53:46.361: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=1,** rtp_timestamp=0x9330B42B dc_digit_up Jan 6 09:53:46.361: csm_vtsp_digit_ready_up (vtsp_cdb=0x621C5F3C) received digit (1) Jan 6 09:53:46.361: CSM voice (2/15): Rcvd Digit

detected(1) Jan 6 09:53:46.361: R2 Incoming Voice(2/15): DSX (E1 0:2): STATE:R2_IN_CATEGORY R2
Got Event 1 Jan 6 09:53:46.361: r2_comp_category:R2_ALERTING !--- Digit 6 sent (pulse): Backward
Signal Group B-6 !--- (the subscriber line free of charge). Jan 6 09:53:46.361:
vtsp_r2_generate_digits: vdev_common=0x620BF390, string=567dc_dial() vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = 6# Jan 6 09:53:46.361: dsp_dtmf_dialing: [0:1:2] packet_Len=36
channel_id=8516 packet_id=90 string=6# digits=2, time_on=150, time_off=30 Jan 6 09:53:46.361:
digit=e, components=2, freq_of_first=900, freq_of_second=780, amp_of_first=8192,
amp_of_second=8192 Jan 6 09:53:46.361: digit=o, components=2, freq_of_first=0, freq_of_second=0,
amp_of_first=1, amp_of_second=1 Jan 6 09:53:46.461: vtsp_process_dsp_message:
MSG_TX_DTMF_DIGIT_OFF:digit=1, duration=8291dc_digit Jan 6 09:53:46.461: csm_vtsp_digit_ready
(vtsp_cdb=0x621C5F3C)received digit (1) Jan 6 09:53:46.461: CSM voice (2/15): Rcvd Digit
detected(1) Jan 6 09:53:46.461: R2 Incoming Voice(2/15): DSX (E1 0:2): STATE:R2_IN_COMPLETE R2
Got Event R2_TONE_OFF Jan 6 09:53:46.729: vtsp_process_dsp_message:
MSG_TX_DIALING_DONEdc_dialing_done() Jan 6 09:53:47.461: R2 Incoming Voice(2/15): DSX (E1 0:2):
STATE:R2_IN_WAIT_GUARD R2 **Got Event R2_TONE_TIMER** Jan 6 09:53:47.461: R2_IN_IDLE:2 r2_in_connect
called Jan 6 09:53:47.461: CSM_PROC_IC1_COLLECT_ADDR_INFO: CSM_EVENT_ADDR_INFO_COLLECTED
(DNIS=567, ANI=) at slot 2, port 15 Jan 6 09:53:47.461: vtsp_tsp_call_accept_check
(sdb=0x61B8F0E0,calling_number= called_number=567): peer_tag=0 Jan 6 09:53:47.461:
VDEV_ALLOCATE: failed to allocate a device Jan 6 09:53:47.461: VDEV_ALLOCATE_ALMOST_READY:
failed to allocate a non-idle modem Jan 6 09:53:47.461: VDEV_ALLOCATE: failed to allocate a
device Jan 6 09:53:47.461: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6
09:53:47.461: VDEV_ALLOCATE: failed to allocate a device Jan 6 09:53:47.461:
VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 6 09:53:47.461:
CSM_PROC_IC3_WAIT_FOR_RES_RESP: CSM_EVENT_RESOURCE_OK at slot 2, port 15 Jan 6 09:53:47.461:
vtsp_IC_switch : (voice_vdev= 0x620BF320) Jan 6 09:53:47.461: vtsp_tsp_call_switch_ind
(cdb=0x621C5F3C,tsp_info=0x620BF320, calling_number= called_number=567 redirect_number=):
peer_tag=123dc_switch: fsm_pop() Jan 6 09:53:47.461: vtsp_do_call_setup_ind Jan 6 09:53:47.461:
vtsp_do_call_setup_ind: Call ID=65677, guid=61FAF610 Jan 6 09:53:47.461: vtsp_do_call_setup_ind:
type=0, under_spec=0, name=AB^Lo, id0=3, id1=0, id2=0, calling=123, called=567 Jan 6
09:53:47.465: dsp_cp_tone_off: [] packet_Len=8 channel_id=8516 packet_id=71 Jan 6 09:53:47.465:
dsp_idle_mode: [] packet_Len=8 channel_id=8516 packet_id=68 Jan 6 09:53:47.465:
dsp_close_voice_channel: [] packet_Len=8 channel_id=8516 packet_id=75 Jan 6 09:53:47.465:
vtsp_timer_stop: 67189073 Jan 6 09:53:47.465: csm_vtsp_call_setup_resp (vdev_info=0x620BF320,
vtsp_cdb=0x621C5F3C) Jan 6 09:53:47.465: csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat
BP_stream0, BP_Ch27 Jan 6 09:53:47.465: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS
allocatedat stream 7, chan 0,BP_stream 0, BP_ch 27 Jan 6 09:53:47.465:
csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 7, chan 0,BP_stream 0,
BP_ch 27vtsp_open_voice_and_set_params Jan 6 09:53:47.465: dsp_close_voice_channel: [0:1 (52)]
packet_Len=8 channel_id=8516 packet_id=75 Jan 6 09:53:47.465: dsp_open_voice_channel_20: [0:1
(52)] packet_Len=16 channel_id=8516 packet_id=74 alaw_ulaw_select=1
associated_signaling_channel=0 time_slot=1 serial_port=1 Jan 6 09:53:47.465:
dsp_encap_config_20: [0:1 (52)] packet_Len=24 channel_id=8516 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 09:53:47.465: dsp_set_playout: [0:1 (52)]
packet_Len=18 channel_id=8516 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 6
09:53:47.465: dsp_echo_canceller_control: [0:1 (52)] packet_Len=10 channel_id=8516 packet_id=66
flags=0x0 Jan 6 09:53:47.465: dsp_set_gains: [0:1 (52)] packet_Len=12 channel_id=8516
packet_id=91 in_gain=0 out_gain=0 Jan 6 09:53:47.465: dsp_vad_enable: [0:1 (52)] packet_Len=10
channel_id=8516 packet_id=78 thresh=-38act_proceeding Jan 6 09:53:47.469:
csm_vtsp_call_proceeding:DST_tdm_chnl call. BP TS allocatedstream 7, chan 0,BP_stream 0, BP_ch
27act_alert Jan 6 09:53:47.493: vtsp_ring_noan_timer_start: 67189076 Jan 6 09:53:47.493:
csm_vtsp_call_alert (vtsp_cdb=0x621C5F3C) act_bridge act_caps_ind Jan 6 09:53:47.737:
act_caps_ind:Encap 1, Vad 2, Codec 0x4, CodecBytes 20, FaxRate 2, FaxBytes 20 SignalType 0
DtmfRelay 1, Modem lact_caps_ack Jan 6 09:53:47.737: dsp_idle_mode: [0:1 (52)] packet_Len=8
channel_id=8516 packet_id=68 Jan 6 09:53:47.737: act_caps_ack: codec = 15, ret = 1 Jan 6
09:53:47.737: dsp_cp_tone_off: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=71 Jan 6
09:53:47.737: dsp_idle_mode: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=68 Jan 6
09:53:47.737: dsp_encap_config_20: [0:1 (52)] packet_Len=24 channel_id=8516 packet_id=92
TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 6 09:53:47.737:
dsp_voice_mode: [0:1 (52)] packet_Len=24 channel_id=8516 packet_id=73 coding_type=20
voice_field_size= 20 VAD_flag=1 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2
AGC_flag=0act_alert_connect Jan 6 09:53:49.461: vtsp_ring_noan_timer_stop: 67189273 Jan 6
09:53:49.461: dsp_cp_tone_off: [0:1 (52)] packet_Len=8 channel_id=8516 packet_id=71 Jan 6
09:53:49.461: csm_vtsp_call_connect (vtsp_cdb=0x621C5F3C, voice_vdev=0x620BF320) Jan 6
09:53:49.461: CSM_IC5_WAIT_FOR_SWITCH_OVER: CSM_EVENT_MODEM_OFFHOOK at slot 2, port 15 Jan 6

09:53:49.617: CSM_RX_CAS_EVENT_FROM_NEAT:(0017): EVENT_CHANNEL_CONNECTED at slot 2 and port 15
Jan 6 09:53:49.617: CSM_PROC_IC6_WAIT_FOR_CONNECT: CSM_EVENT_DSX0_CONNECTED at slot 2, port 15
Jan 6 09:53:49.621: from NEAT(0): (0/2): **TX ANSWERED**(ABCD=0101) eefje# eefje#

R2 ANI obligado Digitaces: Llamada entrante a 567

Para entender esta salida de los debugs mejor, refiera a la [teoría de la señalización del E1 R2](#).

```
eefje#debug csm voice Voice Call Switching Module debugging is on eefje#debug cas Channel
Associated Signaling debugging is on Jan 7 10:00:02.907: from NEAT(0): debug-cas is on Jan 7
10:00:02.907: from NEAT(0): special debug-cas is offg vtsp all Voice telephony call control all
debugging is on eefje# eefje# Jan 7 10:00:23.883: from NEAT(0): (0/8): Rx SEIZURE (ABCD=0001)
Jan 7 10:00:23.927: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:23.927:
VDEV_ALLOCATE: 1/2 is allocated Jan 7 10:00:23.927: csm_vtsp_init_tdm (voice_vdev=0x61F19688)
Jan 7 10:00:23.927: csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm slot 1, dspm 3, dsp 4,
dsp_channel 1 Jan 7 10:00:23.927: csm_vtsp_init_tdm: dsprm_tdm_allocate: tdm stream 5, channel
13, bank 0, BP_channel 15, BP_stream 255 Jan 7 10:00:23.927:
CSM_RX_CAS_EVENT_FROM_NEAT:(cid0007): EVENT_CALL_DIAL_IN at slot 1 and port 60 Jan 7
10:00:23.927: CSM_PROC_IDLE: CSM_EVENT_START_DIGIT_COLLECT at slot 1, port 60 Jan 7
10:00:23.927: csm_vtsp_start_digit_collect (voice_vdev=0x61F19688) Jan 7 10:00:23.927: Enter
csm_connect_pri_vdev function Jan 7 10:00:23.927: csm_connect_pri_vdev:tdm_allocate_BP_Ts()
call. BP TS allocated at BP_stream0, BP_Ch8,vdev_common 0x6205E5F8 Jan 7 10:00:23.927: to
NEAT:(cid0007) EVENT_CHANNEL_LOCK for slot0 ctrl0 chan8 Jan 7 10:00:23.927:
vtsp_do_call_setup_ind Jan 7 10:00:23.927: vtsp_do_call_setup_ind: Call ID=65579, guid=62031A88
Jan 7 10:00:23.927: vtsp_do_call_setup_ind: type=0, under_spec=0, name=, id0=0, id1=0,id2=0,
calling=, called= Jan 7 10:00:23.927: vtsp_do_call_setup_ind: redirect DN = reason =
0vtsp_do_r2_start_digit(): fsm_push(vtsp_r2_state_table) Jan 7 10:00:23.927:
csm_vtsp_call_setup_resp (vdev_info=0x61F19688, vtsp_cdb=0x61B5BFF8) Jan 7 10:00:23.927:
csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch8 Jan 7 10:00:23.927:
csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 13,BP_stream 255,
BP_ch 15 Jan 7 10:00:23.927: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat
stream 5, chan 13,BP_stream 0, BP_ch 8 Jan 7 10:00:23.927: CSM_PROC_IC1_COLLECT_ADDR_INFO:
CSM_EVENT_MODEM_OFFHOOK (DNIS=, ANI=) at slot 1, port 60 Jan 7 10:00:23.931: R2 Incoming
Voice(1/60): DSX (E1 0:8): STATE: R2_IN_IDLE R2 Got Event R2_START Jan 7 10:00:24.027:
CSM_RX_CAS_EVENT_FROM_NEAT:(0007): EVENT_START_RX_TONE at slot 1 and port 60 Jan 7 10:00:24.027:
from NEAT(0): (0/8): TX SEIZURE ACK (ABCD=1101)dc_init_dsp vtsp_open_voice_and_set_params Jan 7
10:00:24.151: dsp_close_voice_channel: [0:1:8] packet_Len=8 channel_id=4929 packet_id=75 Jan 7
10:00:24.151: dsp_open_voice_channel_20: [0:1:8] packet_Len=16 channel_id=4929 packet_id=74
alaw_ulaw_select=1 associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 7 10:00:24.151:
dsp_encap_config_20: [0:1:8] packet_Len=24 channel_id=4929 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 7 10:00:24.151: dsp_set_payout: [0:1:8]
packet_Len=18 channel_id=4929 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 7
10:00:24.151: dsp_echo_canceller_control: [0:1:8] packet_Len=10 channel_id=4929 packet_id=66
flags=0x0 Jan 7 10:00:24.151: dsp_set_gains: [0:1:8] packet_Len=12 channel_id=4929 packet_id=91
in_gain=0 out_gain=0 Jan 7 10:00:24.151: dsp_vad_enable: [0:1:8] packet_Len=10 channel_id=4929
packet_id=78 thresh=-38 Jan 7 10:00:24.151: dsp_voice_mode: [0:1:8] packet_Len=24
channel_id=4929 packet_id=73 coding_type=1 voice_field_size=80 VAD_flag=0 echo_length=64
comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0dsp_dtmf_mode
(VTSP_TONE_R2_MF_FORWARD_MODE) Jan 7 10:00:24.151: dsp_dtmf_mode: [0:1:8] packet_Len=10
channel_id=4929 packet_id=65dtmf_or_mf=1 !--- Digit 5 is sent: Forward Signal Group I-5 (First
DNIS digit). Jan 7 10:00:24.203: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=5,
rtp_timestamp=0x04030000 dc_digit_up Jan 7 10:00:24.203: csm_vtsp_digit_ready_up
(vtsp_cdb=0x61B5BFF8)received digit (5) Jan 7 10:00:24.203: CSM voice (1/60): Rcvd Digit
detected(5) Jan 7 10:00:24.203: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_PRE_CALLERID
R2 Got Event 5 !--- Send Backward Signal Group A-5 (caller category request). Jan 7
10:00:24.203: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:24.203: dsp_dtmf_dialing: [0:1:8] packet_Len=24
channel_id=4929packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:24.203:
digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192,
amp_of_second=8192 Jan 7 10:00:24.303: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF:digit=5,
duration=30dc_digit Jan 7 10:00:24.303: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received
digit (5) Jan 7 10:00:24.303: CSM voice (1/60): Rcvd Digit detected(5) Jan 7 10:00:24.303: R2
Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 Got Event R2_TONE_OFF Jan 7
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10:00:24.303: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()
vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:24.303: dsp_dtmf_dialing:
[0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30
Jan 7 10:00:24.303: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1,
amp_of_second=1 *!--- Caller Category Forward Signal Group II-1 is sent.* Jan 7 10:00:24.403:
vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=1**, rtp_timestamp=0x001E0010 dc_digit_up
Jan 7 10:00:24.403: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7
10:00:24.403: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:24.403: R2 Incoming
Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 **Got Event 1** *!--- Send Backward Signal Group
A-5 (Caller ID request).* Jan 7 10:00:24.403: vtsp_r2_generate_digits: vdev_common=0x6205E5F8,
string=5dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:24.403:
dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=5 digits=1,
time_on=65435, time_off=30 Jan 7 10:00:24.403: digit=, components=2, freq_of_first=1020,
freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:24.503:
vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=1, duration=30dc_digit Jan 7
10:00:24.503: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:24.503:
CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:24.503: R2 Incoming Voice(1/60): DSX (E1
0:8): STATE:R2_IN_CALLERID R2 **Got Event R2_TONE_OFF** Jan 7 10:00:24.503: vtsp_r2_generate_digits:
vdev_common=0x6205E5F8, string=5dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = #
Jan 7 10:00:24.503: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90
string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:24.503: digit=, components=2,
freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 *!--- First ANI digit is sent:
Forward Signal Group I-1.* Jan 7 10:00:24.603: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN:
digit=1**, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:24.603: csm_vtsp_digit_ready_up
(vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:24.603: CSM voice (1/60): Rcvd Digit
detected(1) Jan 7 10:00:24.603: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2
Got Event 1 *!--- Send Backward Signal Group A-5 (Caller ID request).* Jan 7 10:00:24.603:
vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:24.603: dsp_dtmf_dialing: [0:1:8] packet_Len=24
channel_id=4929 packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:24.603:
digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192,
amp_of_second=8192 Jan 7 10:00:24.703: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=1,
duration=30dc_digit Jan 7 10:00:24.703: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received
digit (1) Jan 7 10:00:24.703: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:24.703: R2
Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 **Got Event R2_TONE_OFF** Jan 7
10:00:24.703: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:24.703: dsp_dtmf_dialing: [0:1:8] packet_Len=24
channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:24.703:
digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 *!---
Second ANI digit is sent: Forward Signal Group I-2.* Jan 7 10:00:24.803:
vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN:digit=2**, rtp_timestamp=0x001E0010 dc_digit_up
Jan 7 10:00:24.803: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (2) Jan 7
10:00:24.803: CSM voice (1/60): Rcvd Digit detected(2) Jan 7 10:00:24.803: R2 Incoming
Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2 **Got Event 2** *!--- Send Backward Signal Group
A-5 (Caller ID request).* Jan 7 10:00:24.803: vtsp_r2_generate_digits: vdev_common=0x6205E5F8,
string=5dc_dial()vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 5** Jan 7 10:00:24.803:
dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929packet_id=90 string=5 digits=1,
time_on=65435, time_off=30 Jan 7 10:00:24.803: digit=, components=2, freq_of_first=1020,
freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:24.903:
vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=2, duration=30dc_digit Jan 7
10:00:24.903: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (2) Jan 7 10:00:24.903:
CSM voice (1/60): Rcvd Digit detected(2) Jan 7 10:00:24.903: R2 Incoming Voice(1/60): DSX (E1
0:8): STATE:R2_IN_CALLERID R2 **Got Event R2_TONE_OFF** Jan 7 10:00:24.903: vtsp_r2_generate_digits:
vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = #
Jan 7 10:00:24.903: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90
string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:24.903: digit=, components=2,
freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 *!--- Third ANI digit is sent:
Forward Signal Group I-3.* Jan 7 10:00:25.003: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN:
digit=3**, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.003: csm_vtsp_digit_ready_up
(vtsp_cdb=0x61B5BFF8) received digit (3) Jan 7 10:00:25.003: CSM voice (1/60): Rcvd Digit
detected(3) Jan 7 10:00:25.003: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CALLERID R2
Got Event 3 *!--- Send Backward Signal Group A-5 (Caller ID request).* Jan 7 10:00:25.003:
vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush
dsp_dtmf_dialing(): dial_string = 5 Jan 7 10:00:25.003: dsp_dtmf_dialing: [0:1:8] packet_Len=24

channel_id=4929 packet_id=90 string=5 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.003: digit=, components=2, freq_of_first=1020, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.103: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF:digit=3, duration=30dc_digit Jan 7 10:00:25.103: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (3) Jan 7 10:00:25.103: CSM voice (1/60): Rcvd Digit detected(3) Jan 7 10:00:25.103: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_CALLERID R2 Got Event R2_TONE_OFF** Jan 7 10:00:25.103: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.103: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.103: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 **!--- Digit 15 is sent: Forward Signal Group I-15 (end of ANI digit).** Jan 7 10:00:25.203: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=15, rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.203: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (*) Jan 7 10:00:25.203: CSM voice (1/60): Rcvd Digit detected(*) Jan 7 10:00:25.203: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_CALLERID R2 Got Event 15 !--- Send Backward Signal Group A-1 (next DNIS digit).** Jan 7 10:00:25.203: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1** Jan 7 10:00:25.203: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=1 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.203: digit=, components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.303: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=15, duration=30dc_digit Jan 7 10:00:25.303: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (*) Jan 7 10:00:25.303: CSM voice (1/60): Rcvd Digit detected(*) Jan 7 10:00:25.303: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 7 10:00:25.303: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=5dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.303: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.303: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 **!--- Second DNIS digit is sent: Forward Signal Group I-6.** Jan 7 10:00:25.391: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=6,** rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.391: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (6) Jan 7 10:00:25.391: CSM voice (1/60): Rcvd Digit detected(6) Jan 7 10:00:25.391: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event 6 !--- Send Backward Signal Group A-1.** Jan 7 10:00:25.391: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=56dc_dial() vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1** Jan 7 10:00:25.391: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=1 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.391: digit=, components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.491: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF:digit=6, duration=30dc_digit Jan 7 10:00:25.491: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (6) Jan 7 10:00:25.491: CSM voice (1/60): Rcvd Digit detected(6) Jan 7 10:00:25.491: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 7 10:00:25.491: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=56dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.491: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.491: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 **!--- Third DNIS digit is sent: Forward Signal Group I-7.** Jan 7 10:00:25.583: vtsp_process_dsp_message: **MSG_TX_DTMF_DIGIT_BEGIN: digit=7,** rtp_timestamp=0x001E0010 dc_digit_up Jan 7 10:00:25.583: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (7) Jan 7 10:00:25.583: CSM voice (1/60): Rcvd Digit detected(7) Jan 7 10:00:25.583: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event 7 !--- Send Backward Signal Group A-1.** Jan 7 10:00:25.583: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial()vtsp_dial_nopush **dsp_dtmf_dialing(): dial_string = 1** Jan 7 10:00:25.583: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=1 digits=1, time_on=65435, time_off=30 Jan 7 10:00:25.583: digit=, components=2, freq_of_first=1020, freq_of_second=1140, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:25.683: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=7, duration=30dc_digit Jan 7 10:00:25.683: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (7) Jan 7 10:00:25.683: CSM voice (1/60): Rcvd Digit detected(7) Jan 7 10:00:25.683: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_OFF** Jan 7 10:00:25.683: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:25.683: dsp_dtmf_dialing: [0:1:8] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:25.683: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 Jan 7 10:00:25.835: vtsp_process_dsp_message:

MSG_TX_DIALING_DONE dc_dialing_done() !--- Timeout is 3 seconds. Jan 7 10:00:28.583: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_COLLECT_DNIS R2 Got Event R2_TONE_TIMER !--- Send Backward Signal Group A-3: address-complete, changeover !--- to reception of group-B signal. Jan 7 10:00:28.583: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial()vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = 3# Jan 7 10:00:28.583: dsp_dtmf_dialing: [0:1:8] packet_Len=36 channel_id=4929 packet_id=90 string=3# digits=2, time_on=150, time_off=30 Jan 7 10:00:28.583: digit=, components=2, freq_of_first=1020, freq_of_second=900, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:28.583: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1 !--- Forward Signal Group II-1 is sent: subscriber without priority. Jan 7 10:00:28.831: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=1, rtp_timestamp=0x001E0003 dc_digit_up Jan 7 10:00:28.831: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:28.831: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:28.831: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_CATEGORY R2 Got Event 1 Jan 7 10:00:28.831: CSM_PROC_IC1_COLLECT_ADDR_INFO: CSM_EVENT_ADDR_INFO_COLLECTED (DNIS=567, ANI=123) at slot 1, port 60 Jan 7 10:00:28.831: vtsp_tsp_call_accept_check (sdb=0x61DADEE0, calling_number=123 called_number=567): peer_tag=0 Jan 7 10:00:28.835: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:28.835: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 7 10:00:28.835: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:28.835: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 7 10:00:28.835: VDEV_ALLOCATE: failed to allocate a device Jan 7 10:00:28.835: VDEV_ALLOCATE_ALMOST_READY: failed to allocate a non-idle modem Jan 7 10:00:28.835: CSM_PROC_IC3_WAIT_FOR_RES_RESP: CSM_EVENT_RESOURCE_OK at slot 1, port 60 Jan 7 10:00:28.835: vtsp_IC_switch : (voice_vdev=0x61F19688) Jan 7 10:00:28.835: vtsp_tsp_call_switch_ind (cdb=0x61B5BFF8, tsp_info=0x61F19688, calling_number=123 called_number=567 redirect_number=): peer_tag=123dc_switch: fsm_pop() Jan 7 10:00:28.835: vtsp_do_call_setup_ind Jan 7 10:00:28.835: vtsp_do_call_setup_ind: Call ID=65581, guid=62031A88 Jan 7 10:00:28.835: vtsp_do_call_setup_ind: type=0, under_spec=0, name=b`, id0=9, id1=0, id2=0, calling=123, called=567 Jan 7 10:00:28.835: dsp_cp_tone_off: [] packet_Len=8 channel_id=4929 packet_id=71 Jan 7 10:00:28.835: dsp_idle_mode: [] packet_Len=8 channel_id=4929 packet_id=68 Jan 7 10:00:28.835: dsp_close_voice_channel: [] packet_Len=8 channel_id=4929 packet_id=75 Jan 7 10:00:28.835: vtsp_timer_stop: 7063006 Jan 7 10:00:28.839: csm_vtsp_call_setup_resp (vdev_info=0x61F19688, vtsp_cdb=0x61B5BFF8) Jan 7 10:00:28.839: csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_stream0, BP_Ch8 Jan 7 10:00:28.839: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 13,BP_stream 0, BP_ch 8 Jan 7 10:00:28.839: csm_vtsp_call_setup_resp:DST_tdm_chnl call. BP TS allocatedat stream 5, chan 13,BP_stream 0, BP_ch 8vtsp_open_voice_and_set_params Jan 7 10:00:28.839: dsp_close_voice_channel: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=75 Jan 7 10:00:28.839: dsp_open_voice_channel_20: [0:1 (17)] packet_Len=16 channel_id=4929 packet_id=74 alaw_ulaw_select=1 associated_signaling_channel=0 time_slot=0 serial_port=0 Jan 7 10:00:28.839: dsp_encap_config_20: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0t_vpxcc=0x0 r_vpxcc=0x0 Jan 7 10:00:28.839: dsp_set_playout: [0:1 (17)] packet_Len=18 channel_id=4929 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 7 10:00:28.839: dsp_echo_canceller_control: [0:1 (17)] packet_Len=10 channel_id=4929 packet_id=66 flags=0x0 Jan 7 10:00:28.839: dsp_set_gains: [0:1 (17)] packet_Len=12 channel_id=4929 packet_id=91 in_gain=0 out_gain=0 Jan 7 10:00:28.839: dsp_vad_enable: [0:1 (17)] packet_Len=10 channel_id=4929 packet_id=78 thresh=-38act_proceeding Jan 7 10:00:28.839: csm_vtsp_call_proceeding:DST_tdm_chnl call. BP TS allocatedstream 5, chan 13,BP_stream 0, BP_ch 8act_alert Jan 7 10:00:28.867: vtsp_ring_noan_timer_start: 7063009 Jan 7 10:00:28.867: csm_vtsp_call_alert (vtsp_cdb=0x61B5BFF8) Jan 7 10:00:28.867: csm_vtsp_call_alert: CSM_EVENT_ALERTING_RECEIVED Jan 7 10:00:28.867: CSM_IC5_WAIT_FOR_SWITCH_OVER: at slot 1, port 60 Jan 7 10:00:28.867: CSM_EVENT_ALERTING_RECEIVED: Jan 7 10:00:28.867: calling alerting_start_event !--- Note: For modems, Backward Signal !--- Group B-6 (subscriber's line free, charge) !--- is sent immediately. !--- For voice, it is delayed until alerting is received. !--- Notice that "R2_REJECT" is printed instead of R2_ALERTING. !--- This printing issue is solved in Cisco IOS Software Release 12.1T. Jan 7 10:00:28.867: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE:R2_IN_IDLE R2 Got Event R2_REJECT Jan 7 10:00:28.867: R2_ALERTING: r2_comp_idle Jan 7 10:00:28.867: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567act_bridge Jan 7 10:00:28.867: dsp_voice_mode: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=73 coding_type=1 voice_field_size=80 VAD_flag=0 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0dsp_dtmf_mode (VTSP_TONE_R2_MF_FORWARD_MODE) !--- Answer signal (B-6) is sent after alerting is received. !--- Send Backward Signal Group B6 signal (Subscriber's line free, charge). Jan 7 10:00:28.871: dsp_dtmf_mode: [0:1 (17)] packet_Len=10 channel_id=4929 packet_id=65 dtmf_or_mf=lvtspr2_dial vtsp_r2_dial(): fsm_push(vtsp_r2_state_table) dsp_dtmf_dialing(): dial_string = 6 Jan 7

10:00:28.871: dsp_dtmf_dialing: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=90 string=6 digits=1, time_on=65435, time_off=30 Jan 7 10:00:28.871: digit=, components=2, freq_of_first=900, freq_of_second=780, amp_of_first=8192, amp_of_second=8192 Jan 7 10:00:28.923: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_BEGIN: digit=1, rtp_timestamp=0x001E0006 dc_digit_up Jan 7 10:00:28.923: csm_vtsp_digit_ready_up (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:28.923: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:28.923: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE: R2_IN_COMPLETE** R2 Got Event 1 Jan 7 10:00:28.971: vtsp_process_dsp_message: MSG_TX_DTMF_DIGIT_OFF: digit=1, duration=30dc_digit Jan 7 10:00:28.971: csm_vtsp_digit_ready (vtsp_cdb=0x61B5BFF8) received digit (1) Jan 7 10:00:28.971: CSM voice (1/60): Rcvd Digit detected(1) Jan 7 10:00:28.971: R2 Incoming Voice(1/60): DSX (E1 0:8): **STATE: R2_IN_COMPLETE R2 Got Event R2_TONE_OFF** Jan 7 10:00:28.971: vtsp_r2_generate_digits: vdev_common=0x6205E5F8, string=567dc_dial() vtsp_dial_nopush dsp_dtmf_dialing(): dial_string = # Jan 7 10:00:28.971: dsp_dtmf_dialing: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=90 string=# digits=1, time_on=150, time_off=30 Jan 7 10:00:28.975: digit=, components=2, freq_of_first=0, freq_of_second=0, amp_of_first=1, amp_of_second=1ds_dialing_defaultsds_dialing_default Jan 7 10:00:29.127: vtsp_process_dsp_message: MSG_TX_DIALING_DONEdc_dialing_done() Jan 7 10:00:29.971: R2 Incoming Voice(1/60): DSX (E1 0:8): STATE: R2_IN_WAIT_GUARD R2 **Got Event R2_TONE_TIMER** Jan 7 10:00:29.971: R2_IN_IDLE:2 r2_in_connect called Jan 7 10:00:29.971: R2_IN_CONNECT: call end dial Jan 7 10:00:29.971: pop the dial state machine Jan 7 10:00:29.971: vtsp_r2_end_dial: vdev_common=0x6205E5F8, string=567ds_end_dial(): fsm_pop() act_caps_ind Jan 7 10:00:29.971: act_caps_ind:Encap 1, Vad 2, Codec 0x4, CodecBytes 20, FaxRate 2, FaxBytes 20 SignalType 0 DtmfRelay 1, Modem lact_caps_ack Jan 7 10:00:29.971: dsp_idle_mode: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=68 Jan 7 10:00:29.971: act_caps_ack: codec = 15, ret = 1 Jan 7 10:00:29.971: dsp_cp_tone_off: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=71 Jan 7 10:00:29.971: dsp_idle_mode: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=68 Jan 7 10:00:29.971: dsp_encap_config_20: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=92 TransportProtocol 2 t_ssrc=0x0 r_ssrc=0x0 t_vpxcc=0x0 r_vpxcc=0x0 Jan 7 10:00:29.971: dsp_voice_mode: [0:1 (17)] packet_Len=24 channel_id=4929 packet_id=73 coding_type=19 voice_field_size=20 VAD_flag=1 echo_length=64 comfort_noise=1 inband_detect=1 digit_relay=2 AGC_flag=0act_alert_connect Jan 7 10:00:30.255: vtsp_ring_noan_timer_stop: 7063148 Jan 7 10:00:30.255: dsp_cp_tone_off: [0:1 (17)] packet_Len=8 channel_id=4929 packet_id=71 Jan 7 10:00:30.255: csm_vtsp_call_connect (vtsp_cdb=0x61B5BFF8, voice_vdev=0x61F19688) Jan 7 10:00:30.255: CSM_IC5_WAIT_FOR_SWITCH_OVER: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 60 Jan 7 10:00:30.607: CSM_RX_CAS_EVENT_FROM_NEAT:(0007): EVENT_CHANNEL_CONNECTED at slot 1 and port 60 Jan 7 10:00:30.607: CSM_PROC_IC6_WAIT_FOR_CONNECT: CSM_EVENT_DSX0_CONNECTED at slot 1, port 60 Jan 7 10:00:30.607: from NEAT(0): (0/8): **TX ANSWERED** (ABCD=0101) eefje#

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