Configuration et dépannage de la signalisation E1 R2

Contenu

Introduction

Ce document explique les entrées des commandes progressives qui sont nécessaires pour la mise en œuvre de la signalisation E1 R2. Ce document donne également des informations de dépannage avec des commandes de débogage.

Remarque: Avant que vous utilisiez ce document, il est recommandé que vous lisez d'abord la théorie de la signalisation d'E1 R2.

Conditions préalables

Conditions requises

Avant que vous tentiez cette configuration, assurez-vous que vous rencontrez ces conditions préalables :

- La signalisation R2 s'applique à l'E1 seulement.
- La signalisation R2 n'est pas prise en charge sur le routeur de Cisco MC3810.
- Afin d'exécuter la signalisation R2 sur des Routeurs de gamme Cisco 2600/3600, ce matériel

est exigé :VWIC-1MFT-E1 ou VWIC-2MFT-E1 ou VWIC-2MFT-E1-DI avec un de ces modules de densité de Voix : NM-HDV (module réseau vocal de haute densité) ou NM-HD-2VE (module réseau de voix/télécopie de Communications IP 2-slot).
- Définissez la commande **ds0-group** (ou le **groupe CAS**, basé sur la version de Cisco IOS®) sur les contrôleurs d'E1 (AS5x00, Cisco 2600/3600 Routeurs).
- Employez la commande cas-custom afin de personnaliser les variantes d'E1 R2 pour différents pays ou régions.

Composants utilisés

Les informations dans ce document sont basées sur ces logiciel et version de matériel :

- Cisco AS5300 avec la version du logiciel Cisco IOS 12.0.7T

Remarque: La signalisation d'E1 R2 a été introduite aux Routeurs de gamme Cisco 2600/3600 dans des versions du logiciel Cisco IOS 12.1.2XH et 12.1(3)T.

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

Conventions

Pour plus d'informations sur les conventions de documents, reportez-vous à Conventions relatives aux conseils techniques Cisco.

Configurez

Cette section vous présente avec les informations que vous pouvez employer afin de configurer l'E1 R2.

Remarque: Afin de trouver les informations complémentaires sur les commandes que ce document utilise, se réfère au Command Lookup Tool (clients enregistrés seulement).

AS5300 : Cisco IOS - Compatibilité logicielle de la carte fonctionnelle de Voix (VFC)

Avant que vous implémentiez l'E1 R2 signalant dans un routeur de Cisco AS5300, assurez-vous que votre version de logiciel de Cisco IOS est compatible avec le Cisco VCWare dans le module d'E1. Afin de vérifier la compatibilité logicielle de Cisco IOS, référez-vous à la matrice de compatibilité de Cisco VCWare pour Cisco AS5300. Si les versions sont incompatibles, les modules du processeur de signaux numériques (DSP) dans la carte de Voix ne chargent pas et le traitement des signaux voix ne se produit pas.

Typiquement, si la version du Cisco VCWare est incompatible avec le Cisco IOS logiciel, vous pouvez sélectionner la **commande d'interface de** *slot_number de* **show vfc** afin de voir ceci suivant les indications de cet exemple.

```
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
```

Dans le premier exemple de sortie de la **commande d'interface de** *slot_number de* **show vfc**, le `nombre de module DSP n'est pas des` déclarations `installées` prouvent que les versions sont incompatibles pour ce numéro de module.

Cet deuxième ensemble de sortie est un exemple des modules DSP qui ont la version correcte de Cisco VCWare chargée :

```
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
```

Afin de vérifier la version installée de Cisco VCWare, écrivez le **vcware de version de** *slot_number de* **show vfc de** commande, suivant les indications de cet exemple :

```
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
```

Remarque: Assurez-vous que la version de technologie de Cisco VCWare (c549 ou c542) apparie la technologie installée VFC DSP (DSPM-542 : prise en charge voix à densité unique ou DSPM-549 : support de voix à haute densité).

Configurez l'E1 R2

Terminez-vous ces étapes afin de configurer l'E1 R2 :

1. Installez le controller e1 qui se connecte au PBX automatique (le PBX) ou au commutateur.Assurez-vous que le tramage et le codage de ligne de l'E1 sont correctement placés.
2. Pour l'E1 encadrant, choisissez le **CRC** ou le non-**CRC**.
3. Pour le codage de ligne d'E1, choisissez **HDB3** ou **AMI**.
4. Pour le clock source d'E1, choisissez **interne** ou la **ligne**. Maintenez dans l'esprit que les différents PBX ont des demandes différentes sur le clock source.
5. Configurez la ligne signalisation.
6. Configurez la signalisation d'interregister.
7. Personnalisez la configuration avec la commande de **cas-custom**.

Configurez la ligne signalisation

Employez cette séquence de commandes afin de définir votre ligne signalisation.

```
 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 ...
```

C'est la séquence de commandes pour le Logiciel Cisco IOS version 11.3.

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

Remarque: Si vous améliorez du Logiciel Cisco IOS version 11.3 à 12.0, la nouvelle commande remplace l'ancien automatiquement.

Configurez la signalisation d'Interregister

Cet exemple de séquence de commandes montre comment configurer les différents types de signalisation d'interregister :

```
 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
```

L'implémentation de Cisco de la signalisation R2 a le support de Service d'identification du numéro composé réacheminé (RDNIS) activé par défaut. Si vous activez l'option d'enregistrement automatique des numéros (ANI), la collecte d'information DNIS est encore effectuée. La spécification de l'option d'ANI ne désactive pas la collecte DNIS. DNIS est le nombre qui s'appelle. L'ANI est le nombre de l'appelant. Par exemple, si vous configurez un routeur appelé l'A pour appeler un routeur appelé le B, puis le numéro de DNIS est assigné au routeur B et le nombre d'ANI est assigné au routeur que l'ANI A. est semblable à l'Identification de l'appelant.

Personnalisation d'E1 R2 à l'aide de la commande cas-custom

Les commandes secondaires sous la commande cas-custom sont utilisées afin de faciliter les variantes de pays. Ils sont également utilisés afin de personnaliser des paramètres de canal de signalisation associé (CAS). Cette séquence de commandes illustre comment vous pouvez visualiser toutes les options de commande de **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
```

Pour plus d'informations sur les paramètres de commande de **cas-custom**, référez-vous à la personnalisation d'E1 R2 avec la commande de **cas-custom**.

Diagramme du réseau

Ce document utilise cette configuration du réseau.

Configurations

Afin de ce document, ce sont les trois configurations R2 différentes qui sont affichées à travers l'interface d'E1 :

- Numérique non asservi R2
- R2 Digital Semi-obligée

- ANI R2 obligé par Digital

Les configurations ont été modifiées afin de prouver seulement aux informations que ce document discute.

eefje configuré pour le numérique non asservi 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 configuré pour R2 Digital Semi-obligée

```
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 configuré pour l'ANI R2 obligé par Digital

```
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
!
```

Vérifiez

Aucune procédure de vérification n'est disponible pour cette configuration.

Dépannez

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

Dépannez les pannes d'E1 R2

C'est l'information de dépannage concernant cette configuration. Suivez ces instructions afin de dépanner votre configuration.

1. Vérifiez que le controller e1 0 est.S'il est vers le bas, le tramage de contrôle, codage de ligne, clock source, alarme, remplace le câble, réinsèrent la carte, et ainsi de suite. Utilisez la personnalisation d'E1 R2 avec le document sur les commandes CAS personnalisées comme référence.
2. Si vous utilisez un AS5300, vérifiez que les DSP sont correctement installés avec la commande d'*interface numéro d'emplacement de* **show vfc**.
3. Configurez le cadran centripète direct (A FAIT) sur le pair de réseau téléphonique public commuté (POTS), de sorte que les chiffres reçus soient utilisés pour choisir un pair sortant.
4. Spécifiez la **cptone** (la **cptone** est spécifique pour votre pays) sur les ports vocaux.Une commande **cptonecountry** doit être configurée afin d'apparier la commande de *pays de* **cas-custom**. Les ensembles de paramètres de `cptone les` tonalités de progression d'appel pour un pays particulier, et place d'une manière primordiale le codage à l'a-law ou à l'u-law, qui dépendent du pays. Le codage par défaut pour les USA est u-law.
5. La ligne de correspondance et la signalisation de registre provisions à la configuration de commutateur.
6. Activez une partie de **met au point** affiché dans ce document et étudie les sorties.
7. Vérifiez la transmission entre le routeur et le PBX ou commutez :La ligne est-elle saisie ?Est-ce que routeur reçoit/envoie des chiffres ?Découvrez qui dégrossissent des espaces libres l'appel.Si possible, utilisez les dernières versions logicielles de Cisco IOS disponibles sur Cisco.com.

Commandes debug et show

Certaines commandes **show** sont prises en charge par l'Output Interpreter Tool (clients enregistrés uniquement), qui vous permet de voir une analyse de la sortie de la commande show.

Remarque: Avant d'émettre des commandes **debug**, reportez-vous à Informations importantes sur les commandes de débogage.

Remarque: Pour le Logiciel Cisco IOS version 12.0, utilisez ces derniers **met au point** :

- **debug cas** - Pour la ligne signalisation.
- **debug csm voice** - Pour la signalisation d'interregister.
- commande **tout compris de debug vtsp** pour avoir la sortie de tous les messages (chiffres) permutés entre le PBX et le routeur.

Pour IOS 11.3 de version du logiciel Cisco IOS, utilisez ces commandes :

- **debug-rbs csm de modem-gestion** - Pour la ligne signalisation (vous le besoin de spécifier le **service interne** en mode de config d'abord.).
- **debug csm voice** - Pour la signalisation d'interregister.
- commande **tout compris de debug vtsp** pour avoir la sortie de tous les messages (chiffres) permutés entre le PBX et le routeur.

Pour les Plateformes AS5400 et AS5350, utilisez ces derniers met au point :

- **mettez au point le sigsm r2** - Pour la signalisation d'interregister
- commande **tout compris de debug vtsp** pour avoir la sortie de tous les messages (chiffres) permutés entre le PBX et le routeur.

Exemple de sortie de débogage

Puisqu'il y a trois configurations différentes précédemment affichées dans ce document, voici trois différents **met au point** :

Numérique non asservi R2 : Appel entrant à 567

Afin de comprendre cette **sortie de débogage** mieux, référez-vous à la théorie de la signalisation d'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 ctlr0 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_playout: [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)]

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packet_Len=18 channel_id=8529 packet_id=76 mode=1 initial=60 min=4 max=200 fax_nom=300 Jan 6
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 1act_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#
```

[R2 Digital Semi-obligée : Appel entrant à 567]

Afin de comprendre cette **sortie de débogage** mieux, référez-vous à la [théorie de la signalisation d'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 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 ctlr0 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:
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csm_vtsp_call_setup_resp:vdev_common BP TS allocatedat BP_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, 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 1act_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

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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#
```

ANI R2 obligé par Digital : Appel entrant à 567

Afin de comprendre cette **sortie de débogage** mieux, référez-vous à la théorie de la signalisation d'E1 R2.

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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 ctlr0 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_playout: [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,
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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 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_DONEdc_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=1vtsp_r2_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_defaultds_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 1act_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#

Informations connexes

- E1 R2 signalant pour la voix sur ip sur le Serveur d'accès Cisco AS5300
- E1 R2 signalant pour les Routeurs de gammes Cisco 3620 et 3640
- Personnalisation d'E1 R2 à l'aide de la commande cas-custom
- E1 R2 et configuration de canal de signalisation associé
- E1 R2 signalant pour Cisco AS5300 et les serveurs d'accès de Cisco AS5200
- Assistance technique concernant la technologie vocale
- Assistance concernant les produits vocaux et de communications unifiées
- Dépannage des problèmes de téléphonie IP Cisco
- Support et documentation techniques - Cisco Systems