

음성 전화 통신 서비스 공급자 디버깅

목차

[소개](#)

[시작하기 전에](#)

[표기 규칙](#)

[사전 요구 사항](#)

[사용되는 구성 요소](#)

[T.38 debug vtsp all 명령 - 팩스 코덱을 표시합니다. 다운로드](#)

[VoFR debug vtsp all 명령의 작업 예](#)

[원래 라우터](#)

[라우터 종료](#)

[관련 정보](#)

소개

이 문서에서는 팩스를 성공적으로 통과한 단일 통화에 대해 debug vtsp all 명령 출력의 두 캡처를 제공합니다. 첫 번째는 T.38 팩스용이지만 VoIP(Voice over IP)를 통한 팩스 릴레이에도 적합합니다. 이 출력에는 팩스 코덱이 다운로드 및 사용되었음을 확인하는 프로세스를 설명하는 주석이 포함되어 있습니다. 두 번째 디코딩은 VoFR(Voice over Frame Relay)에 대한 것이며 주석 처리 없이 유지됩니다. debug vtsp all 출력에는 T.30 프로토콜 관점에서 얻은 많은 정보가 포함되지 않지만 라우터에서 다음과 같은 유용한 상태 정보를 제공합니다.

- 라우터가 팩스 모드로 전환되었는지 확인
- 팩스 속도, 코덱과 ECM(Error Correction Mode) 사용 여부
- 종료 게이트웨이가 종료 팩스 컴퓨터에서 팩스 신호음을 받았는지 확인

시작하기 전에

표기 규칙

문서 규칙에 대한 자세한 내용은 [Cisco 기술 팁 표기 규칙](#)을 참조하십시오.

사전 요구 사항

이 문서에 대한 특정 요건이 없습니다.

사용되는 구성 요소

이 문서의 정보는 주로 Cisco IOS Software Release 12.2(5)를 기반으로 합니다. 대부분의 정보는 다른 Cisco IOS Software 릴리스에도 유용해야 합니다.

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 라이브 네트워크에서 작업하는 경우, 사용하기 전에 모든 명령의 잠재적인 영향을 이해해야 합니다.

T.38 debug vtsp all 명령 - 팩스 코덱을 표시합니다. 다운로드

T.38 팩스 릴레이의 경우 통화가 연결되고 라우터가 팩스 신호음 디버그를 탐지하면 다음과 유사한 메시지가 표시됩니다.

debug vtsp all 명령

```
!--- Prior to the ccCallConnect message and during the
capabilities !--- exchange phase, the fax_rate message
may be displayed as follows: .Jun 4 21:06:43.677:
cc_api_caps_ack (dstVdbPtr=0x62F07650, dstCallId=0x18,
srcCallId=0x19, caps={codec=0x4, fax_rate=0x2, vad=0x2,
modem=0x0
  codec_bytes=20, signal_type=2})
!--- In this case the fax rate 0x02 refers to the voice
rate, which !--- with this codec (g.729), is less than
or equal to 8 kbps. !--- Listed below are the other
possible fax rate values. !--- Below is a listing of fax
rate values for Cisco IOS Software Release 12.2.x or
earlier: !--- hex value fax rate value !--- 0x2 Voice !-
-- 0x4 14400 !--- 0x8 9600 !--- 0x10 7200 !--- 0x20 4800
!--- 0x40 2400 !--- 0x80 1200 !--- Below is a listing of
new fax rate values for Cisco IOS Software Release
12.3.x or later: !--- Note the hex values now map to
slightly different speeds than the list above. !--- /*
FAX Capabilities Bits */ !--- #define CC_CAP_FAX_NONE
0x01 !--- #define CC_CAP_FAX_VOICE 0x02 !--- #define
CC_CAP_FAX_24 0x04 !--- #define CC_CAP_FAX_48 0x08 !---
#define CC_CAP_FAX_72 0x10 !--- #define CC_CAP_FAX_96
0x20 !--- #define CC_CAP_FAX_120 0x40 !--- #define
CC_CAP_FAX_144 0x80 !--- Usually, after the call is
connected, the ccCallConnect debug !--- message is seen
as follows: .Jun 4 21:06:44.841: ccCallConnect
(callID=0x18), prog_ind = 0 .Jun 4 21:06:44.841:
ssaFlushPeerTagQueue cid(24) peer list: (empty) .Jun 4
21:06:47.437: vtsp_process_dsp_message:
MSG_TX_GET_TX_STAT: rtp_timestamp=0xD4D85071 .Jun 4
21:06:47.437: vtsp:[4/0:15 (25), S_CONNECT,
E_DSP_GET_TX] .Jun 4 21:06:49.049:
vtsp_process_dsp_message: MSG_TX_GET_TX_STAT:
rtp_timestamp=0xD4D882D1 .Jun 4 21:06:49.049:
vtsp:[4/0:15 (25), S_CONNECT, E_DSP_GET_TX] .Jun 4
21:06:50.129: vtsp_process_dsp_message:
MSG_TX_TONE_DETECT: type=0 trigger=1 tone_id=0 .Jun 4
21:06:50.129: vtsp:[4/0:15 (25), S_CONNECT,
E_DSP_TONE_DETECT] .Jun 4 21:06:50.129:
vtsp_modem_proto_from_cdb: cap_modem_proto 0 .Jun 4
21:06:50.129: cc_api_call_feature: (vdbPtr=0x63387EDC,
callID=0x19, feature_ind.type=1 .Jun 4 21:06:50.129:
act_lfax_switch: cap_modem_proto=16,
  fax_relay_on=1, state=19
.Jun 4 21:06:50.129: vtsp_t38_switchover:2 - data_mode:1
!--- Note that 2 means T.38; 1 means Cisco proprietary.
.Jun 4 21:06:50.129: cc_api_t38_fax_start
(dstVdbPtr=0x62F07650, dstCallId=0x18, srcCallId=0x19,
```

```
caps={codec=0x10000, fax_rate=0x2, vad=0x2, modem=0x0
codec_bytes=20, signal_type=2}) .Jun 4 21:06:50.129:
vtsp_timer: 20362254 .Jun 4 21:06:50.129: sess_appl:
ev(28=CC_EV_CALL_FEATURE), cid(25), disp(0) .Jun 4
21:06:50.129:
cid(25)st(SSA_CS_ACTIVE)ev(SSA_EV_CALL_FEATURE)
oldst(SSA_CS_CONFERENCED_ALERT)cfid(8)csize(0)in(0)fDest
(0) .Jun 4 21:06:50.129: -
cid2(24)st2(SSA_CS_ACTIVE)oldst2
(SSA_CS_CONFERENCING_ALERT) .Jun 4 21:06:50.129:
ccCallFeature (callID=0x18, feature.type=1) .Jun 4
21:06:50.249: vtsp_process_dsp_message:
MSG_TX_TONE_DETECT: type=0 trigger=0 tone_id=0 .Jun 4
21:06:50.249: vtsp:[4/0:15 (25), S_LFAX_WAIT_CAPS_ACK,
E_DSP_TONE_DETECT]
.Jun 4 21:06:50.249: vtsp_process_event(): prev_state =
0.11 ,
state = S_LFAX_WAIT_CAPS_ACK, event = E_DSP_TONE_DETECT
.Jun 4 21:06:50.389: vtsp_process_dsp_message:
MSG_TX_TONE_DETECT: type=0 trigger=1 tone_id=0
.Jun 4 21:06:50.389: vtsp:[4/0:15 (25),
S_LFAX_WAIT_CAPS_ACK, E_DSP_TONE_DETECT]
.Jun 4 21:06:50.389: vtsp_process_event(): prev_state =
0.11 ,
state = S_LFAX_WAIT_CAPS_ACK, event = E_DSP_TONE_DETECT
.Jun 4 21:06:50.489: vtsp_process_dsp_message:
MSG_TX_TONE_DETECT: type=0 trigger=0 tone_id=0
.Jun 4 21:06:50.489: vtsp:[4/0:15 (25),
S_LFAX_WAIT_CAPS_ACK, E_DSP_TONE_DETECT]
.Jun 4 21:06:50.489: vtsp_process_event(): prev_state =
0.11 ,
state = S_LFAX_WAIT_CAPS_ACK,
event = E_DSP_TONE_DETECT Invalid FSM Input on channel
4/0:15 (25)
.Jun 4 21:06:50.529: cc_api_t38_fax_start
(dstVdbPtr=0x63387EDC,
dstCallId=0x19, srcCallId=0x18, caps={codec=0x10000,
fax_rate=0x2,
vad=0x2, modem=0x0 codec_bytes=160, signal_type=2})
.Jun 4 21:06:50.529: vtsp:[4/0:15 (25),
S_LFAX_WAIT_CAPS_ACK, E_CC_T38_START]
.Jun 4 21:06:50.529: act_caps_ack_lfax_dnld
.Jun 4 21:06:50.529: vtsp_timer_stop: 20362294
.Jun 4 21:06:50.529: dsp_idle_mode: [4/0:15 (25)]
packet_len=8
channel_id=1 packet_id=68
.Jun 4 21:06:50.529: vtsp:[4/0:15 (25),
S_LFAX_DOWNLOAD, E_DSPRM_PEND_SUCCESS]
.Jun 4 21:06:50.529: act_lfax_mode
.Jun 4 21:06:50.529: cc_api_local_codec_dnld_done
(dstVdbPtr=0x62F07650, dstCallId=0x18, srcCallId=0x19)
!--- The previous three messages confirm that the fax
codec was successfully !--- downloaded into the DSP. You
may not see all the messages above !--- and below. The
important point is that you do not see error !---
messages saying that the fax codec was not downloaded
correctly. .Jun 4 21:06:50.529: vtsp_timer: 20362294
.Jun 4 21:06:50.929: cc_api_t38_fax_start
(dstVdbPtr=0x63387EDC, dstCallId=0x19, srcCallId=0x18,
caps={codec=0x10000, fax_rate=0x2, vad=0x2, modem=0x0
codec_bytes=160, signal_type=2}) .Jun 4 21:06:50.929:
cc_api_remote_codec_dnld_done (dstVdbPtr=0x63387EDC,
dstCallId=0x19, srcCallId=0x18) .Jun 4 21:06:50.929:
vtsp:[4/0:15 (25), S_LFAX_WAIT_FAX, E_CC_T38_START] .Jun
```

```

4 21:06:50.929: vtsp:[4/0:15 (25), S_LFAX_WAIT_FAX,
E_CC_T30_CAP_ACK] .Jun 4 21:06:50.929: act_t38_lfax_mode
.Jun 4 21:06:50.929: vtsp_timer_stop: 20362334 .Jun 4
21:06:50.929: dsp_idle_mode: [4/0:15 (25)] packet_len=8
channel_id=1 packet_id=68 .Jun 4 21:06:50.929:
dsp_encap_config: T38 .Jun 4 21:06:50.929: dsp_fax_mode:
[4/0:15 (25)] FaxRate 0x2, Codec 0x10000 dsp_fax_mode()
ECM_DISABLE not set, debug_info requested .Jun 4
21:06:50.929: dsp_fax_mode: [] packet_len=28
channel_id=1 packet_id=69 max_trans=3 info_size=20,
fax_protocol_type=3, ls_data_red=0, hs_data_red=0,
tcf_handling=2, fax_relay_cntl=0x2 nsf_country = 0xAD,
nsf_mfg = 0x0051 !--- During the fax transmission the
Cisco IOS Software polls the DSP !--- statistics
periodically, and the following message appears: .Jun 4
21:06:50.929: vtsp:[4/0:15 (25), S_FAX, E_DSP_GET_TX

```

추적은 다른 버전의 Cisco IOS 소프트웨어에서 다르게 보일 수 있지만, 팩스 코덱이 올바르게 로드되었는지 여부와 "FAX" 키워드 다음에 출력에서 어떤 팩스 프로토콜을 사용했는지 항상 파악할 수 있어야 합니다.

팩스 코덱이 올바르게 로드되지 않은 경우 소프트웨어 문제가 있을 수 있습니다. 최신 유지 보수 릴리스가 사용되는지 확인하고, 문제가 계속되면 TAC(Technical Assistance Center)에서 케이스를 여십시오.

VoFR debug vtsp all 명령의 작업 예

원래 라우터

debug vtsp all - 원래 라우터

```

vdt1-2600-2d#
Jun  5 10:10:34.053: vtsp_tsp_call_setup_ind
(sdb=0x81FD48DC, tdm_info=0x0,
tsp_info=0x81FF74DC, calling_number= calling_oct3 =
0x0,
called_number= called_oct3 = 0x81, oct3a=0x0):
peer_tag=0
Jun  5 10:10:34.053: : ev.clg.clir is 0
ev.clg.clid_transparent
is 0 ev.clg.null_orig_clg is 1
ev.clg.calling_translated is false

Jun  5 10:10:34.057: vtsp_do_call_setup_ind
Jun  5 10:10:34.057: vtsp_allocate_cdb,cdb 0x821D9344
Jun  5 10:10:34.057: vtsp_do_call_setup_ind: Call
ID=65589, guid=821D9874
Jun  5 10:10:34.057: vtsp_do_call_setup_ind: type=0,
under_spec=-2119571356,
name=f<0HNhf< 1=@, id0=1, id1=1, id2=-32567, calling=,
called= subscriber=RegularLine
Jun  5 10:10:34.057: vtsp_do_normal_call_setup_ind
Jun  5 10:10:34.057: vtsp_insert_cdb,cdb 0x821D9344
Jun  5 10:10:34.057: vtsp_open_voice_and_set_params
Jun  5 10:10:34.057: dsp_close_voice_channel: [1/1:0:27]
packet_len=8
channel_id=2 packet_id=75

```

```
Jun  5 10:10:34.057: dsp_open_voice_channel_20:
[1/1:0:27] packet_len=16
  channel_id=2 packet_id=74 alaw_ulaw_select=0
  associated_signaling_channel=129 time_slot=1
serial_port=0
Jun  5 10:10:34.057: vtsp_modem_proto_from_cdb:
cap_modem_proto 1073741824
Jun  5 10:10:34.057: vtsp_modem_proto_from_cdb:
cap_modem_proto 1073741824
Jun  5 10:10:34.057: dsp_encap_config: [1/1:0:27]
packet_len=30
  channel_id=2 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0
  t_vpxcc=0x0 r_vpxcc=0x0 sid_support=1,
tse_payload=65535, seq_num=0x0,
  redundancy=0
Jun  5 10:10:34.061: dsp_set_playout_delay
Jun  5 10:10:34.061: dsp_set_playout: [1/1:0:27]
packet_len=18
  channel_id=2 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
  dsp_set_playout_delay_config
Jun  5 10:10:34.061: dsp_set_playout_config
Jun  5 10:10:34.061: mode 0, init 60, min 40, max 200
playout default

Jun  5 10:10:34.061: dsp_set_playout_config:mode 0, init
60, min 40, max 200
Jun  5 10:10:34.061: dsp_set_playout_config: [1/1:0:27]
packet_len=18
  channel_id=2 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
Jun  5 10:10:34.061: dsp_echo_canceler_control:
echo_cancel: 1
Jun  5 10:10:34.061: dsp_echo_canceler_control:
[1/1:0:27] echo_cancel 1,
  disable_hpf 0, flags=0x0
Jun  5 10:10:34.061: dsp_echo_canceler_control:
[1/1:0:27] packet_len=10
  channel_id=2 packet_id=66 flags=0x0
Jun  5 10:10:34.061: sgf: FXx/E&M: msg-
>message.set_codec_gains.out_gain=0
Jun  5 10:10:34.061: dsp_set_gains: [1/1:0:27]
packet_len=12
  channel_id=2 packet_id=91 in_gain=0 out_gain=0
Jun  5 10:10:34.061: dsp_vad_enable: [1/1:0:27] enable:
packet_len=12
  channel_id=2 packet_id=78 thresh=-38
Jun  5 10:10:34.061: vtsp_report_digit_control:
  enable=1: digit reporting enabled
Jun  5 10:10:34.061: : vtsp_get_digit_timeouts
Jun  5 10:10:34.065: vtsp:[1/1:0:27, S_SETUP_INDICATED,
E_CC_SETUP_ACK]
Jun  5 10:10:34.065: act_setup_ind_ack
Jun  5 10:10:34.065: vtsp_modem_proto_from_cdb:
cap_modem_proto 0
Jun  5 10:10:34.065: vtsp_modem_proto_from_cdb:
cap_modem_proto 0
Jun  5 10:10:34.065: dsp_encap_config: [1/1:0:27]
packet_len=30
  channel_id=2 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0
  t_vpxcc=0x0 r_vpxcc=0x0 sid_support=1,
tse_payload=65535, seq_num=0x0,
```

```
redundancy=0
Jun  5 10:10:34.065: dsp_voice_mode: [1/1:0:27] cdb
821D9344,
  cdb->codec_params.modem 2, inband_detect flags 0x21
Jun  5 10:10:34.065: map_dtmf_relay_type--digit relay
mode: 2
Jun  5 10:10:34.065: dsp_voice_mode: [1/1:0:27]
packet_len=24
  channel_id=2 packet_id=73 coding_type=1
voice_field_size=80 VAD_flag=0
  echo_length=64 comfort_noise=1 inband_detect=33
digit_relay_mode=2
  AGC_flag=0act_setup_ind_ack: modem_mode = 0,
fax_relay_on = 1
Jun  5 10:10:34.065: act_setup_ind_ack():
  dsp_dtmf_mode()dsp_dtmf_mode(VTSP_TONE_DTMF_MODE)

Jun  5 10:10:34.065: dsp_dtmf_mode: [1/1:0:27]
packet_len=10
  channel_id=2 packet_id=65 dtmf_or_mf=0
Jun  5 10:10:34.065: vtsp_timer: 43525550
Jun  5 10:10:34.065: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
E_CC_GEN_TONE]
Jun  5 10:10:34.065: act_gen_tone
Jun  5 10:10:34.065: dsp_cp_tone_off: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=71
Jun  5 10:10:34.065: dsp_cp_tone_on: [1/1:0:27]
packet_len=38
  channel_id=2 packet_id=72 tone_id=4 n_freq=2
freq_of_first=350
  freq_of_second=440 amp_of_first=5514 amp_of_second=5514
direction=1
  on_time_first=65535 off_time_first=0 on_time_second=0
off_time_second=0
Jun  5 10:10:34.065: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
E_CC_GEN_TONE]
Jun  5 10:10:34.069: act_gen_tone
Jun  5 10:10:34.069: dsp_cp_tone_off: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=71
Jun  5 10:10:34.069: dsp_cp_tone_on: [1/1:0:27]
packet_len=38
  channel_id=2 packet_id=72 tone_id=4 n_freq=2
freq_of_first=350
  freq_of_second=440 amp_of_first=5514 amp_of_second=5514
direction=1
  on_time_first=65535 off_time_first=0 on_time_second=0
off_time_second=0
Jun  5 10:10:35.544: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_BEGIN: digit=4,
rtp_timestamp=0xD455BA67

Jun  5 10:10:35.544: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
E_DSP_DTMF_DIGIT_BEGIN]
Jun  5 10:10:35.544: act_report_digit_begin
Jun  5 10:10:35.612: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_OFF: digit=4, duration=120
Jun  5 10:10:35.616: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
E_DSP_DTMF_DIGIT]
Jun  5 10:10:35.616: act_report_digit_end
Jun  5 10:10:35.616: vtsp_timer_stop: 43525705
Jun  5 10:10:35.616: dsp_cp_tone_off: [1/1:0:27]
packet_len=8
```

```
channel_id=2 packet_id=71
Jun  5 10:10:35.616: vtsp_timer: 43525705
Jun  5 10:10:35.732: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_BEGIN: digit=0,
  rtp_timestamp=0xD455BA67
Jun  5 10:10:35.732: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
  E_DSP_DTMF_DIGIT_BEGIN]
Jun  5 10:10:35.732: act_report_digit_begin
Jun  5 10:10:35.792: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_OFF: digit=0, duration=110
Jun  5 10:10:35.792: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
  E_DSP_DTMF_DIGIT]
Jun  5 10:10:35.792: act_report_digit_end
Jun  5 10:10:35.792: vtsp_timer_stop: 43525722
Jun  5 10:10:35.796: dsp_cp_tone_off: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=71
Jun  5 10:10:35.796: vtsp_timer: 43525723
Jun  5 10:10:35.933: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_BEGIN: digit=0,
  rtp_timestamp=0xD455BA67
Jun  5 10:10:35.933: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
  E_DSP_DTMF_DIGIT_BEGIN]
Jun  5 10:10:35.933: act_report_digit_begin
Jun  5 10:10:36.005: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_OFF: digit=0, duration=120
Jun  5 10:10:36.005: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
  E_DSP_DTMF_DIGIT]
Jun  5 10:10:36.005: act_report_digit_end
Jun  5 10:10:36.005: vtsp_timer_stop: 43525744
Jun  5 10:10:36.005: dsp_cp_tone_off: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=71
Jun  5 10:10:36.005: vtsp_timer: 43525744
Jun  5 10:10:36.133: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_BEGIN: digit=1,
  rtp_timestamp=0xD455BA67
Jun  5 10:10:36.133: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
  E_DSP_DTMF_DIGIT_BEGIN]
Jun  5 10:10:36.133: act_report_digit_begin
Jun  5 10:10:36.193: vtsp_process_dsp_message:
  MSG_TX_DTMF_DIGIT_OFF: digit=1, duration=110
Jun  5 10:10:36.193: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
  E_DSP_DTMF_DIGIT]
Jun  5 10:10:36.193: act_report_digit_end
Jun  5 10:10:36.193: vtsp_timer_stop: 43525762
Jun  5 10:10:36.193: dsp_cp_tone_off: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=71
Jun  5 10:10:36.193: vtsp_timer: 43525762
Jun  5 10:10:36.197: vtsp_report_digit_control:
  enable=0: digit reporting disabled
Jun  5 10:10:36.197: : vtsp_get_digit_timeouts
Jun  5 10:10:36.197: vtsp_save_dialpeer_tag: tag = 4001
Jun  5 10:10:36.197: vtsp:[1/1:0:27, S_DIGIT_COLLECT,
  E_CC_PROCEEDING]
Jun  5 10:10:36.197: act_dcollect_proc
Jun  5 10:10:36.205: vtsp_get_dialpeer_tag: tag = 4001
Jun  5 10:10:36.890: vtsp_get_dialpeer_tag: tag = 4001
Jun  5 10:10:36.890: vtsp:[1/1:0:27, S_PROCEEDING,
  E_CC_PROGRESS]
Jun  5 10:10:36.890: act_progress
Jun  5 10:10:36.890: vtsp_timer_stop: 43525832
Jun  5 10:10:36.890: vtsp:[1/1:0:27, S_PROCEEDING,
```

```
E_CC_BRIDGE]
Jun  5 10:10:36.890: act_bridge
Jun  5 10:10:36.890: vtsp:[1/1:0:27, S_PROCEEDING,
E_CC_CAPS_IND]
Jun  5 10:10:36.890: act_caps_ind
Jun  5 10:10:36.890: act_caps_ind: passthrough:
cap_modem_proto 0,
  cap_modem_codec 0, cap_modem_redundancy 0, payload 0
Jun  5 10:10:36.890: act_caps_ind:CC_CAP_ENCAP_FRF11
Encap 2, Vad 2,
  Codec 0x4, CodecBytes 30, FaxRate 2, FaxBytes 30,
FaxNsf 0xAD0051
  Sub-channel 8, Bitmask 0x0 SignalType 2, SeqNumStart
0x0
Jun  5 10:10:36.890: act_caps_ind: [ mode:0,init:60,
min:40, max:200]
Jun  5 10:10:36.890: vtsp:[1/1:0:27, S_PROCEEDING,
E_CC_CAPS_ACK]
Jun  5 10:10:36.890: act_caps_ack
Jun  5 10:10:36.894: act_caps_ack: passthrough:
cap_modem_proto 0,
  cap_modem_codec 0, cap_modem_redundancy 0, payload 0
Jun  5 10:10:36.894: dsp_idle_mode: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=68
Jun  5 10:10:36.894: act_caps_ack: codec = 16, ret = 2
Jun  5 10:10:36.894: vtsp_timer: 43525833
Jun  5 10:10:36.894: vtsp:[1/1:0:27, S_NULL,
E_DSPRM_PEND_SUCCESS]
Jun  5 10:10:36.894: act_pend_codec_success
Jun  5 10:10:36.894: vtsp_timer_stop: 43525833
Jun  5 10:10:36.894: vtsp_open_voice_and_set_params
Jun  5 10:10:36.894: dsp_close_voice_channel: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=75
Jun  5 10:10:36.894: dsp_open_voice_channel_20:
[1/1:0:27] packet_len=16
  channel_id=2 packet_id=74 alaw_ulaw_select=0
  associated_signaling_channel=129 time_slot=1
serial_port=0
Jun  5 10:10:36.894: dsp_encap_config: [1/1:0:27]
packet_len=18
  channel_id=2 packet_id=92 TransportProtocol 3
SID_support=0
  sequence_number=0 rotate_flag=0 header_bytes 0x80
Jun  5 10:10:36.894: dsp_set_playout_delay
Jun  5 10:10:36.894: dsp_set_playout: [1/1:0:27]
packet_len=18
  channel_id=2 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
  dsp_set_playout_delay_config
Jun  5 10:10:36.894: dsp_set_playout_config
Jun  5 10:10:36.894: mode 0, init 60, min 40, max 200
playout default
Jun  5 10:10:36.894: dsp_set_playout_config:mode 0, init
60, min 40, max 200
Jun  5 10:10:36.894: dsp_set_playout_config: [1/1:0:27]
packet_len=18
  channel_id=2 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
Jun  5 10:10:36.894: dsp_echo_canceler_control:
echo_cancel: 1
Jun  5 10:10:36.894: dsp_echo_canceler_control:
[1/1:0:27] echo_cancel 1,
```



```
disable_hpf 0, flags=0x0
Jun  5 10:10:36.898: dsp_echo_canceler_control:
[1/1:0:27] packet_len=10
  channel_id=2 packet_id=66 flags=0x0
Jun  5 10:10:36.898: sgf: FXx/E&M:  msg-
>message.set_codec_gains.out_gain=0
Jun  5 10:10:36.898: dsp_set_gains: [1/1:0:27]
packet_len=12
  channel_id=2 packet_id=91 in_gain=0 out_gain=0
Jun  5 10:10:36.898: dsp_vad_enable: [1/1:0:27] enable:
packet_len=12
  channel_id=2 packet_id=78 thresh=-38
Jun  5 10:10:36.898: dsp_voice_mode: [1/1:0:27] cdb
821D9344,
  cdb->codec_params.modem 0, inband_detect flags 0x1
Jun  5 10:10:36.898: map_dtmf_relay_type--digit relay
mode: 2
Jun  5 10:10:36.898: dsp_voice_mode: [1/1:0:27]
packet_len=24
  channel_id=2 packet_id=73 coding_type=19
voice_field_size=30
  VAD_flag=250 echo_length=64 comfort_noise=1
inband_detect=1
  digit_relay_mode=2 AGC_flag=0
Jun  5 10:10:43.024: vtsp_get_dialpeer_tag: tag = 4001
Jun  5 10:10:43.024: vtsp:[1/1:0:27, S_PROCEEDING,
E_CC_CONNECT]
Jun  5 10:10:43.024: act_connect
Jun  5 10:10:43.024: vtsp_ring_noan_timer_stop: 43526446

Jun  5 10:10:48.710: vtsp:[1/1:0:27, S_CONNECT,
E_PH_CODEC_FAX]
Jun  5 10:10:48.710: act_rfax_switch
Jun  5 10:10:48.710: dsp_idle_mode: [1/1:0:27]
packet_len=8
  channel_id=2 packet_id=68
Jun  5 10:10:48.710: vtsp_timer_stop: 43527014
Jun  5 10:10:48.910: vtsp:[1/1:0:27, S_RFAX_DOWNLOAD,
E_DSPRM_PEND_SUCCESS]
Jun  5 10:10:48.910: act_rfax_mode
Jun  5 10:10:48.910: vtsp:[1/1:0:27, S_RFAX_WAIT_ACK,
E_PH_CODEC_ACK]
Jun  5 10:10:48.910: act_wait_ack_ack
Jun  5 10:10:48.910: vtsp_timer_stop: 43527034
Jun  5 10:10:48.914: dsp_fax_mode: [1/1:0:27] FaxRate
0x2, Codec 0x4
  dsp_fax_mode() ECM_DISABLE not set, debug_info not
requested
Jun  5 10:10:48.914: dsp_fax_mode: [1/1:0:27]
packet_len=28
  channel_id=2 packet_id=69 max_trans=3 info_size=30,
fax_protocol_type=2,
  hs_data_len=0, ls_data_red=0, hs_data_red=0,
tcf_handling=0,
fax_relay_cntl=0x0 nsf_country = 0xAD, nsf_mfg = 0x0051
  !--- fax codecs: enum { !--- DSP_TELELOGY_FAX = 1, !---
DSP_FRF11_FAX, !--- DSP_T38_FAX vdt1-2600-2d# vdt1-2600-
2d# vdt1-2600-2d# Jun  5 10:11:21.516:
vtsp_process_dsp_message: MSG_TX_FAX_CLEARDOWN: Jun  5
10:11:21.516: vtsp:[1/1:0:27, S_FAX,
E_DSP_FAX_CLEARDOWN] Jun  5 10:11:21.516:
act_fax_to_voice Jun  5 10:11:21.516: vtsp_timer_stop:
43530295 Jun  5 10:11:21.520: dsp_idle_mode: [1/1:0:27]
packet_len=8 channel_id=2 packet_id=68 Jun  5
```

```
10:11:21.520: dsp_close_voice_channel: [1/1:0:27]
packet_len=8 channel_id=2 packet_id=75act_fax_to_voice
codec= 16 Jun 5 10:11:21.520: vtsp_timer: 43530295 Jun 5
10:11:21.520: vtsp:[1/1:0:27, S_FAX_TERM,
E_DSPRM_PEND_SUCCESS] Jun 5 10:11:21.520:
vtsp_timer_stop: 43530295 Jun 5 10:11:21.520:
act_fax_complete Jun 5 10:11:21.520:
vtsp_open_voice_and_set_params Jun 5 10:11:21.520:
dsp_close_voice_channel: [1/1:0:27] packet_len=8
channel_id=2 packet_id=75 Jun 5 10:11:21.520:
dsp_open_voice_channel_20: [1/1:0:27] packet_len=16
channel_id=2 packet_id=74 alaw_ulaw_select=0
associated_signaling_channel=129 time_slot=1
serial_port=0 Jun 5 10:11:21.520: dsp_encap_config:
[1/1:0:27] packet_len=18 channel_id=2 packet_id=92
TransportProtocol 3 SID_support=0 sequence_number=0
rotate_flag=0 header_bytes 0x80 Jun 5 10:11:21.520:
dsp_set_playout_delay Jun 5 10:11:21.520:
dsp_set_playout: [1/1:0:27] packet_len=18 channel_id=2
packet_id=76 mode=1 initial=60 min=40 max=200
fax_nom=300 dsp_set_playout_delay_config Jun 5
10:11:21.520: dsp_set_playout_config Jun 5 10:11:21.520:
mode 0, init 60, min 40, max 200 playout default Jun 5
10:11:21.520: dsp_set_playout_config:mode 0, init 60,
min 40, max 200 Jun 5 10:11:21.520:
dsp_set_playout_config: [1/1:0:27] packet_len=18
channel_id=2 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300 Jun 5 10:11:21.520:
dsp_echo_canceler_control: echo_cancel: 1 Jun 5
10:11:21.520: dsp_echo_canceler_control: [1/1:0:27]
echo_cancel 1, disable_hpf 0, flags=0x0 Jun 5
10:11:21.525: dsp_echo_canceler_control: [1/1:0:27]
packet_len=10 channel_id=2 packet_id=66 flags=0x0 Jun 5
10:11:21.525: sgf: FXx/E&M: msg-
>message.set_codec_gains.out_gain=0 Jun 5 10:11:21.525:
dsp_set_gains: [1/1:0:27] packet_len=12 channel_id=2
packet_id=91 in_gain=0 out_gain=0 Jun 5 10:11:21.525:
dsp_vad_enable: [1/1:0:27] enable: packet_len=12
channel_id=2 packet_id=78 thresh=-38 Jun 5 10:11:21.525:
dsp_voice_mode: [1/1:0:27] cdb 821D9344, cdb-
>codec_params.modem 0, inband_detect flags 0x1 Jun 5
10:11:21.525: map_dtmf_relay_type--digit relay mode: 2
Jun 5 10:11:21.525: dsp_voice_mode: [1/1:0:27]
packet_len=24 channel_id=2 packet_id=73 coding_type=19
voice_field_size=30 VAD_flag=250 echo_length=64
comfort_noise=1 inband_detect=1 digit_relay_mode=2
AGC_flag=0 Jun 5 10:11:24.033: vtsp:[1/1:0:27,
S_CONNECT, E_TSP_DISCONNECT_IND] Jun 5 10:11:24.033:
act_generate_disc Jun 5 10:11:24.033:
vtsp_ring_noan_timer_stop: 43530546 Jun 5 10:11:24.033:
vtsp_timer_stop: 43530546 Jun 5 10:11:24.033:
vtsp_pcm_tone_detect_timer_stop: 43530546 Jun 5
10:11:24.033: vtsp_pcm_switchover_timer_stop: 43530546
Jun 5 10:11:24.033: vtsp:[1/1:0:27, S_CONNECT,
E_CC_BRIDGE_DROP] Jun 5 10:11:24.033: act_bdrop Jun 5
10:11:24.033: vtsp:[1/1:0:27, S_CONNECT,
E_CC_DISCONNECT] Jun 5 10:11:24.033: act_disconnect Jun
5 10:11:24.033: vtsp_ring_noan_timer_stop: 43530546 Jun
5 10:11:24.033: vtsp_pcm_tone_detect_timer_stop:
43530546 Jun 5 10:11:24.033:
vtsp_pcm_switchover_timer_stop: 43530546 Jun 5
10:11:24.033: vtsp_cot_timer_stop: 43530546 Jun 5
10:11:24.033: vtsp_timer_stop: 43530546 Jun 5
10:11:24.033: vtsp_timer: 43530546 Jun 5 10:11:24.037:
```

```

vtsp:[1/1:0:27, S_WAIT_STATS, E_DSP_GET_ERROR] Jun 5
10:11:24.037: act_get_error Jun 5 10:11:24.037:
1/1:0:27: rx_dropped=0 tx_dropped=0 rx_control=51
tx_control=14 tx_control_dropped=0 dsp_mode_channel_1=0
dsp_mode_channel_2=2 c[0]=68 c[1]=3 c[2]=10 c[3]=69
c[4]=68 c[5]=75 c[6]=75 c[7]=74 c[8]=92 c[9]=76 c[10]=76
c[11]=66 c[12]=91 c[13]=78 c[14]=73 c[15]=6 Jun 5
10:11:24.037: dsp_get_levels: [1/1:0:27] packet_len=8
channel_id=2 packet_id=89 Jun 5 10:11:24.041:
vtsp:[1/1:0:27, S_WAIT_STATS, E_DSP_GET_LEVELS] Jun 5
10:11:24.041: act_get_levels Jun 5 10:11:24.045:
vtsp_process_dsp_message: MSG_TX_GET_TX_STAT:
rtp_timestamp=0xFD908919 Jun 5 10:11:24.045:
vtsp:[1/1:0:27, S_WAIT_STATS, E_DSP_GET_TX] Jun 5
10:11:24.049: act_stats_complete Jun 5 10:11:24.049:
vtsp_timer_stop: 43530548 Jun 5 10:11:24.049:
vtsp_ring_noan_timer_stop: 43530548 Jun 5 10:11:24.049:
dsp_idle_mode: [1/1:0:27] packet_len=8 channel_id=2
packet_id=68 Jun 5 10:11:24.049: vtsp_timer: 43530548
Jun 5 10:11:24.850: vtsp:[1/1:0:27, S_WAIT_RELEASE,
E_TSP_CALL_FEATURE_IND] Jun 5 10:11:24.850:
act_call_feature_ind Jun 5 10:11:24.850: vtsp:[1/1:0:27,
S_WAIT_RELEASE, E_TSP_DISCONNECT_CONF] Jun 5
10:11:24.850: act_wrelease_release Jun 5 10:11:24.850:
vtsp_timer_stop: 43530628 Jun 5 10:11:24.854:
dsp_cp_tone_off: [1/1:0:27] packet_len=8 channel_id=2
packet_id=71 Jun 5 10:11:24.854: dsp_idle_mode:
[1/1:0:27] packet_len=8 channel_id=2 packet_id=68 Jun 5
10:11:24.854: dsp_close_voice_channel: [1/1:0:27]
packet_len=8 channel_id=2
packet_id=75vtsp_do_call_historyvtsp_do_call_history
CoderRate 20 Jun 5 10:11:24.854: vtsp:[1/1:0:27,
S_CLOSE_DSPRM, E_DSPRM_CLOSE_COMPLETE] Jun 5
10:11:24.854: act_terminate Jun 5 10:11:24.854:
vtsp_free_cdb,cdb 0x821D9344 vdt1-2600-2d#

```

라우터 종료

debug vtsp all - 라우터 종료

```

vdt1-7200-2c#
Jun 5 10:10:36.200: vtsp_do_call_setup_req
Jun 5 10:10:36.200: vtsp_allocate_cdb,cdb 0x620F01FC
Jun 5 10:10:36.200: vtsp_insert_cdb,cdb 0x620F01FC
Jun 5 10:10:36.200: vtsp_do_call_setup_req calling oct3
0x0, called oct3 0x0
Jun 5 10:10:36.200: vtsp_do_call_setup_req: Call ID=55,
guid=62F8AC6C
Jun 5 10:10:36.200: digit_strip:1, pcn:4001, poa:4001
Jun 5 10:10:36.200: pcn:, poa:
Jun 5 10:10:36.200: Final pcn:, poa:, dial_string:
Jun 5 10:10:36.200: calling oct3 0x0, called oct3 0x0
Jun 5 10:10:36.200: vtsp:[2/1:0 (39), S_SETUP_REQUEST,
E_TSP_PROCEEDING]
Jun 5 10:10:36.200: act_setup_pend_proceeding
Jun 5 10:10:36.200: vtsp_open_voice_and_set_params
Jun 5 10:10:36.200: dsp_close_voice_channel: [2/1:0
(39)] packet_len=8
channel_id=1 packet_id=75
Jun 5 10:10:36.200: dsp_open_voice_channel_20: [2/1:0
(39)] packet_len=16

```

```
channel_id=1 packet_id=74 alaw_ulaw_select=0
associated_signaling_channel=128 time_slot=0
serial_port=0
Jun  5 10:10:36.200: vtsp_modem_proto_from_cdb:
cap_modem_proto 1073741824
Jun  5 10:10:36.204: vtsp_modem_proto_from_cdb:
cap_modem_proto 1073741824
Jun  5 10:10:36.204: dsp_encap_config: [2/1:0 (39)]
packet_len=30
channel_id=1 packet_id=92 TransportProtocol 2
t_ssrc=0x0 r_ssrc=0x0
t_vpxcc=0x0 r_vpxcc=0x0 sid_support=1,
tse_payload=65535, seq_num=0x0,
redundancy=0
Jun  5 10:10:36.204: dsp_set_playout_delay
Jun  5 10:10:36.204: dsp_set_playout: [2/1:0 (39)]
packet_len=18
channel_id=1 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
dsp_set_playout_delay_config
Jun  5 10:10:36.204: dsp_set_playout_config
Jun  5 10:10:36.204: mode 0, init 60, min 40, max 200
playout default

Jun  5 10:10:36.204: dsp_set_playout_config:mode 0, init
60, min 40, max 200
Jun  5 10:10:36.204: dsp_set_playout_config: [2/1:0
(39)] packet_len=18
channel_id=1 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
Jun  5 10:10:36.204: dsp_echo_canceler_control:
echo_cancel: 1
Jun  5 10:10:36.204: dsp_echo_canceler_control: [2/1:0
(39)] echo_cancel 1,
disable_hpf 0, flags=0x0
Jun  5 10:10:36.204: dsp_echo_canceler_control: [2/1:0
(39)] packet_len=10
channel_id=1 packet_id=66 flags=0x0
Jun  5 10:10:36.204: sgf: FXx/E&M: msg-
>message.set_codec_gains.out_gain=0
Jun  5 10:10:36.204: dsp_set_gains: [2/1:0 (39)]
packet_len=12
channel_id=1 packet_id=91 in_gain=0 out_gain=0
Jun  5 10:10:36.204: dsp_vad_enable: [2/1:0 (39)]
enable: packet_len=12
channel_id=1 packet_id=78 thresh=-38
Jun  5 10:10:36.888: vtsp:[2/1:0 (39), S_SETUP_REQ_PROC,
E_TSP_PROGRESS]
Jun  5 10:10:36.888: act_setup_pend_progress
Jun  5 10:10:36.888: vtsp:[2/1:0 (39), S_SETUP_REQ_PROC,
E_CC_BRIDGE]
Jun  5 10:10:36.888: act_bridge
Jun  5 10:10:36.888: vtsp:[2/1:0 (39), S_SETUP_REQ_PROC,
E_CC_CAPS_IND]
Jun  5 10:10:36.888: act_caps_ind
Jun  5 10:10:36.888: act_caps_ind: passthrough:
cap_modem_proto 0,
cap_modem_codec 0, cap_modem_redundancy 0, payload 0
Jun  5 10:10:36.888: act_caps_ind:CC_CAP_ENCAP_FRF11
Encap 2, Vad 2,
Codec 0x4, CodecBytes 30,
FaxRate 2, FaxBytes 30, FaxNsf 0xAD0051
Sub-channel 8, Bitmask 0x0
```

```
SignalType 2, SeqNumStart 0x0
Jun  5 10:10:36.888: act_caps_ind: [ mode:0,init:60,
min:40, max:200]
Jun  5 10:10:36.888: vtsp:[2/1:0 (39), S_SETUP_REQ_PROC,
E_CC_CAPS_ACK]
Jun  5 10:10:36.888: act_caps_ack
Jun  5 10:10:36.888: act_caps_ack: passthrough:
cap_modem_proto 0,
  cap_modem_codec 0, cap_modem_redundancy 0, payload 0
Jun  5 10:10:36.888: dsp_idle_mode: [2/1:0 (39)]
packet_len=8
  channel_id=1 packet_id=68
Jun  5 10:10:36.888: act_caps_ack: codec = 16, ret = 2

Jun  5 10:10:36.888: vtsp_timer: 94714681
Jun  5 10:10:36.888: vtsp:[2/1:0 (39), S_NULL,
E_DSPRM_PEND_SUCCESS]
Jun  5 10:10:36.888: act_pend_codec_success
Jun  5 10:10:36.888: vtsp_timer_stop: 94714681
Jun  5 10:10:36.888: vtsp_open_voice_and_set_params
Jun  5 10:10:36.888: dsp_close_voice_channel: [2/1:0
(39)] packet_len=8
  channel_id=1 packet_id=75
Jun  5 10:10:36.888: dsp_open_voice_channel_20: [2/1:0
(39)] packet_len=16
  channel_id=1 packet_id=74 alaw_ulaw_select=0
  associated_signaling_channel=128 time_slot=0
  serial_port=0
Jun  5 10:10:36.888: dsp_encap_config: [2/1:0 (39)]
packet_len=18
  channel_id=1 packet_id=92 TransportProtocol 3
  SID_support=0
  sequence_number=0 rotate_flag=0 header_bytes 0x80
Jun  5 10:10:36.888: dsp_set_playout_delay
Jun  5 10:10:36.888: dsp_set_playout: [2/1:0 (39)]
packet_len=18
  channel_id=1 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
  dsp_set_playout_delay_config
Jun  5 10:10:36.888: dsp_set_playout_config
Jun  5 10:10:36.888: mode 0, init 60, min 40, max 200
playout default

Jun  5 10:10:36.888: dsp_set_playout_config:mode 0, init
60, min 40, max 200
Jun  5 10:10:36.888: dsp_set_playout_config: [2/1:0
(39)] packet_len=18
  channel_id=1 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300
Jun  5 10:10:36.888: dsp_echo_canceler_control:
echo_cancel: 1
Jun  5 10:10:36.888: dsp_echo_canceler_control: [2/1:0
(39)] echo_cancel 1,
  disable_hpf 0, flags=0x0
Jun  5 10:10:36.888: dsp_echo_canceler_control: [2/1:0
(39)] packet_len=10
  channel_id=1 packet_id=66 flags=0x0
Jun  5 10:10:36.888: sgf: FXx/E&M: msg-
>message.set_codec_gains.out_gain=0
Jun  5 10:10:36.888: dsp_set_gains: [2/1:0 (39)]
packet_len=12 channel_id=1
  packet_id=91 in_gain=0 out_gain=0
Jun  5 10:10:36.888: dsp_vad_enable: [2/1:0 (39)]
enable: packet_len=12
```

```
channel_id=1 packet_id=78 thresh=-38
Jun  5 10:10:36.888: dsp_voice_mode: [2/1:0 (39)] cdb
620F01FC,
  cdb->codec_params.modem 0, inband_detect flags 0x1
Jun  5 10:10:36.888: map_dtmf_relay_type--digit relay
mode: 2
Jun  5 10:10:36.888: dsp_voice_mode: [2/1:0 (39)]
packet_len=24
  channel_id=1 packet_id=73 coding_type=19
voice_field_size=30 VAD_flag=250
  echo_length=64 comfort_noise=1
  inband_detect=1 digit_relay_mode=2 AGC_flag=0
Jun  5 10:10:43.024: vtsp:[2/1:0 (39), S_SETUP_REQ_PROC,
E_TSP_CONNECT]
Jun  5 10:10:43.024: act_setup_pend_connect
Jun  5 10:10:43.024: vtsp_ring_noan_timer_stop: 94715294
Jun  5 10:10:43.024: dsp_cp_tone_off: [2/1:0 (39)]
packet_len=8
  channel_id=1 packet_id=71

Jun  5 10:10:48.492: vtsp_process_dsp_message:
  MSG_TX_TONE_DETECT: type=0 trigger=1 tone_id=0
Jun  5 10:10:48.492: vtsp:[2/1:0 (39), S_CONNECT,
E_DSP_TONE_DETECT]
Jun  5 10:10:48.492: vtsp_modem_proto_from_cdb:
cap_modem_proto 0
Jun  5 10:10:48.492: act_lfax_switch:
cap_modem_proto=16,
  fax_relay_on=1, state=19
  !--- sys/if/dsp_cntl_msgs.h * Definitions for the tone
detect !--- */ !--- #define TONE_TYPE_V_21 0x0000 !---
#define TONE_TYPE_CED 0x0001 /* CED 2100Hz */ !---
#define TONE_TYPE_CNG 0x0002 /* CNG 1100Hz */ !---
#define TONE_SDT_DISC 0x0003 !--- #define TONE_TYPE_COT
0x0004 /* COT tone detected */ !--- #define
TONE_TYPE_MODEM 0x0005 /* Modem answer signal detected
*/ !--- #define SILENCE_DETECTED 0x0006 /* Silence
detection */ !--- #define VOICE_DETECTED 0x0007 /* Voice
detection */ !--- #define DUAL_TONE_DETECTED 0x0008 /*
configurable dual tone detection */ !--- #define
SEQ_TONE_DETECTED 0x0009 /* configurable seq tone
detection */ !--- #define TONE_DETECT_ON 0x0001 !---
#define TONE_DETECT_OFF ~TONE_DETECT_ Jun  5
10:10:48.492: vtsp_timer: 94715841 Jun  5 10:10:48.492:
vtsp:[2/1:0 (39), S_LFAX_WAIT_ACK, E_PH_CODEC_ACK] Jun  5
10:10:48.492: act_lfax_download Jun  5 10:10:48.492:
vtsp_timer_stop: 94715841 Jun  5 10:10:48.492:
dsp_idle_mode: [2/1:0 (39)] packet_len=8 channel_id=1
packet_id=68 Jun  5 10:10:48.492: vtsp:[2/1:0 (39),
S_LFAX_DOWNLOAD, E_DSPRM_PEND_SUCCESS] Jun  5
10:10:48.492: act_lfax_mode Jun  5 10:10:48.492:
vtsp:[2/1:0 (39), S_LFAX_WAIT_FAX, E_PH_CODEC_FAX] Jun  5
10:10:48.492: act_wait_fax_fax ph_set_codec_ack Jun  5
10:10:48.492: dsp_fax_mode: [2/1:0 (39)] FaxRate 0x2,
Codec 0x4 dsp_fax_mode() ECM_DISABLE not set, debug_info
not requested Jun  5 10:10:48.492: dsp_fax_mode: [2/1:0
(39)] packet_len=28 channel_id=1 packet_id=69
max_trans=3 info_size=30, fax_protocol_type=2,
hs_data_len=0, ls_data_red=0, hs_data_red=0,
tcf_handling=0, fax_relay_cntl=0x0 nsf_country = 0xAD,
nsf_mfg = 0x0051 vdt1-7200-2c# vdt1-7200-2c# vdt1-7200-
2c# Jun  5 10:11:21.736: vtsp_process_dsp_message:
MSG_TX_FAX_CLEARDOWN: Jun  5 10:11:21.740: vtsp:[2/1:0
(39), S_FAX, E_DSP_FAX_CLEARDOWN] Jun  5 10:11:21.740:
```

```
act_fax_to_voice Jun 5 10:11:21.740: vtsp_timer_stop:
94719166 Jun 5 10:11:21.740: dsp_idle_mode: [2/1:0 (39)]
packet_len=8 channel_id=1 packet_id=68 Jun 5
10:11:21.740: dsp_close_voice_channel: [2/1:0 (39)]
packet_len=8 channel_id=1 packet_id=75act_fax_to_voice
codec= 16 Jun 5 10:11:21.740: vtsp_timer: 94719166 Jun 5
10:11:21.740: vtsp:[2/1:0 (39), S_FAX_TERM,
E_DSPRM_PEND_SUCCESS] Jun 5 10:11:21.740:
vtsp_timer_stop: 94719166 Jun 5 10:11:21.740:
act_fax_complete Jun 5 10:11:21.740:
vtsp_open_voice_and_set_params Jun 5 10:11:21.740:
dsp_close_voice_channel: [2/1:0 (39)] packet_len=8
channel_id=1 packet_id=75 Jun 5 10:11:21.740:
dsp_open_voice_channel_20: [2/1:0 (39)] packet_len=16
channel_id=1 packet_id=74 alaw_ulaw_select=0
associated_signaling_channel=128 time_slot=0
serial_port=0 Jun 5 10:11:21.740: dsp_encap_config:
[2/1:0 (39)] packet_len=18 channel_id=1 packet_id=92
TransportProtocol 3 SID_support=0 sequence_number=0
rotate_flag=0 header_bytes 0x80 Jun 5 10:11:21.740:
dsp_set_playout_delay Jun 5 10:11:21.740:
dsp_set_playout: [2/1:0 (39)] packet_len=18 channel_id=1
packet_id=76 mode=1 initial=60 min=40 max=200
fax_nom=300 dsp_set_playout_delay_config Jun 5
10:11:21.740: dsp_set_playout_config Jun 5 10:11:21.740:
mode 0, init 60, min 40, max 200 playout default Jun 5
10:11:21.740: dsp_set_playout_config:mode 0, init 60,
min 40, max 200 Jun 5 10:11:21.740:
dsp_set_playout_config: [2/1:0 (39)] packet_len=18
channel_id=1 packet_id=76 mode=1 initial=60 min=40
max=200 fax_nom=300 Jun 5 10:11:21.740:
dsp_echo_canceler_control: echo_cancel: 1 Jun 5
10:11:21.740: dsp_echo_canceler_control: [2/1:0 (39)]
echo_cancel 1, disable_hpf 0, flags=0x0 Jun 5
10:11:21.740: dsp_echo_canceler_control: [2/1:0 (39)]
packet_len=10 channel_id=1 packet_id=66 flags=0x0 Jun 5
10:11:21.740: sgf: FXx/E&M: msg-
>message.set_codec_gains.out_gain=0 Jun 5 10:11:21.740:
dsp_set_gains: [2/1:0 (39)] packet_len=12 channel_id=1
packet_id=91 in_gain=0 out_gain=0 Jun 5 10:11:21.740:
dsp_vad_enable: [2/1:0 (39)] enable: packet_len=12
channel_id=1 packet_id=78 thresh=-38 Jun 5 10:11:21.740:
dsp_voice_mode: [2/1:0 (39)] cdb 620F01FC, cdb-
>codec_params.modem 0, inband_detect flags 0x1 Jun 5
10:11:21.740: map_dtmf_relay_type--digit relay mode: 2
Jun 5 10:11:21.740: dsp_voice_mode: [2/1:0 (39)]
packet_len=24 channel_id=1 packet_id=73 coding_type=19
voice_field_size=30 VAD_flag=250 echo_length=64
comfort_noise=1 inband_detect=1 digit_relay_mode=2
AGC_flag=0 Jun 5 10:11:24.036: vtsp:[2/1:0 (39),
S_CONNECT, E_CC_BRIDGE_DROP] Jun 5 10:11:24.036:
act_bdrop Jun 5 10:11:24.036: vtsp:[2/1:0 (39),
S_CONNECT, E_CC_DISCONNECT] Jun 5 10:11:24.036:
act_disconnect Jun 5 10:11:24.036:
vtsp_ring_noan_timer_stop: 94719396 Jun 5 10:11:24.036:
vtsp_pcm_tone_detect_timer_stop: 94719396 Jun 5
10:11:24.036: vtsp_pcm_switchover_timer_stop: 94719396
Jun 5 10:11:24.036: vtsp_cot_timer_stop: 94719396 Jun 5
10:11:24.036: vtsp_timer_stop: 94719396 Jun 5
10:11:24.036: vtsp_timer: 94719396 Jun 5 10:11:24.036:
vtsp:[2/1:0 (39), S_WAIT_STATS, E_DSP_GET_ERROR] Jun 5
10:11:24.036: act_get_error Jun 5 10:11:24.036: 2/1:0
(39): rx_dropped=1 tx_dropped=0 rx_control=39
tx_control=5 tx_control_dropped=0 dsp_mode_channel_1=2
```

```
dsp_mode_channel_2=0 c[0]=0 c[1]=0 c[2]=73 c[3]=71
c[4]=68 c[5]=69 c[6]=68 c[7]=75 c[8]=75 c[9]=74 c[10]=92
c[11]=76 c[12]=76 c[13]=66 c[14]=91 c[15]=78 Jun 5
10:11:24.036: dsp_get_levels: [2/1:0 (39)] packet_len=8
channel_id=1 packet_id=89 Jun 5 10:11:24.036:
vtsp:[2/1:0 (39), S_WAIT_STATS, E_DSP_GET_LEVELS] Jun 5
10:11:24.036: act_get_levels Jun 5 10:11:24.040:
vtsp_process_dsp_message: MSG_TX_GET_TX_STAT:
rtp_timestamp=0x94D00079 Jun 5 10:11:24.040: vtsp:[2/1:0
(39), S_WAIT_STATS, E_DSP_GET_TX] Jun 5 10:11:24.040:
act_stats_complete Jun 5 10:11:24.040: vtsp_timer_stop:
94719396 Jun 5 10:11:24.040: vtsp_ring_noan_timer_stop:
94719396 Jun 5 10:11:24.040: dsp_idle_mode: [2/1:0 (39)]
packet_len=8 channel_id=1 packet_id=68 Jun 5
10:11:24.040: vtsp_timer: 94719396 Jun 5 10:11:24.840:
vtsp:[2/1:0 (39), S_WAIT_RELEASE,
E_TSP_CALL_FEATURE_IND] Jun 5 10:11:24.840:
act_call_feature_ind Jun 5 10:11:24.840: vtsp:[2/1:0
(39), S_WAIT_RELEASE, E_TSP_DISCONNECT_CONF] Jun 5
10:11:24.840: act_wrelease_release Jun 5 10:11:24.840:
vtsp_timer_stop: 94719476 Jun 5 10:11:24.840:
dsp_cp_tone_off: [2/1:0 (39)] packet_len=8 channel_id=1
packet_id=71 Jun 5 10:11:24.840: dsp_idle_mode: [2/1:0
(39)] packet_len=8 channel_id=1 packet_id=68 Jun 5
10:11:24.840: dsp_close_voice_channel: [2/1:0 (39)]
packet_len=8 channel_id=1
packet_id=75vtsp_do_call_historyvtsp_do_call_history
CoderRate 20 Jun 5 10:11:24.840: vtsp:[2/1:0 (39),
S_CLOSE_DSPRM, E_DSPRM_CLOSE_COMPLETE] Jun 5
10:11:24.840: act_terminate Jun 5 10:11:24.840:
vtsp_free_cdb,cdb 0x620F01FC
```

관련 정보

- [음성 - VoIP로 팩스 릴레이 구성\(T.38\)](#)
- [음성 기술 지원](#)
- [음성 및 통합 커뮤니케이션 제품 지원](#)
- [Cisco IP 텔레포니 문제 해결](#)
- [Technical Support - Cisco Systems](#)