

T.37 OnRamp 팩스

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소개

기본 [Fax over IP T.37 Store 및 Forward Fax](#) 문서의 이 섹션에서는 OnRamp 스토어 및 전달 팩스에 대해 설명합니다. OnRamp T.37은 팩스 호출을 수락하고 TIFF(Tagged Image File Format)로 팩스를 인코딩하여 해당 TIFF를 이메일 서버에 첨부 파일로 보내는 프로세스입니다.

이 문서에는 기능을 작동시키는 데 필요한 구성이 포함되어 있습니다. Troubleshoot 섹션은 유용한 **debug** 명령 및 의미를 해석하는 방법을 설명합니다. 사용된 토폴로지는 [네트워크 다이어그램](#) 섹션에 나와 있습니다.

사전 요구 사항

요구 사항

이 문서에 대한 구체적인 요구 사항은 주 섹션인 Fax over [IP T.37 Store and Forward Fax](#)에 지정되어 있습니다.

사용되는 구성 요소

이 문서는 특정 소프트웨어 및 하드웨어 버전으로 한정되지 않습니다.

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우, 모든

명령어의 잠재적인 영향을 미리 숙지하시기 바랍니다.

표기 규칙

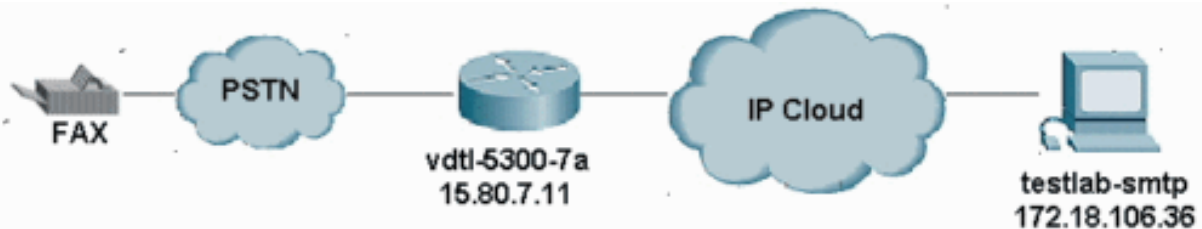
문서 규칙에 대한 자세한 내용은 [Cisco 기술 팁 표기 규칙](#)을 참조하십시오.

구성

아래 섹션에서 먼저 OnRamp 팩스 구성과 관련된 Cisco IOS® Software 구성 매개변수에 대해 설명하면 5300 컨피그레이션에 중요한 명령의 기능을 설명하는 추가 정보가 표시됩니다. 5300 컨피그레이션 뒤에 나오는 섹션에서 일부 선택적 컨피그레이션 매개변수를 확인할 수 있습니다.

네트워크 다이어그램

이 문서에서는 아래 다이어그램에 표시된 네트워크 설정을 사용합니다.



구성 매개변수

필수 매개 변수:	
팩스 인터페이스 유형 팩스 메일	게이트웨이에 대해 T.37 기능을 활성화합니다. 5300에서는 재부팅해야 하지만 5350 또는 5400은 재부팅하지 않습니다.
mta 전송 서버	라우터가 OnRamp 이메일을 통해 전송할 SMTP(Simple Mail Transfer Protocol) 서버의 호스트 이름 또는 IP 주소입니다. 이 컨피그레이션이 없으면 라우터가 OnRamp 이메일을 전송할 위치를 알지 못합니다. 서버가 구성되지 않은 디버깅 및 콘솔 메시지에 대해서는 서버 구성 없음 섹션을 참조하십시오.
mta 게시 마스터 전송	이 주소는 mta가 mail-from 옵션을 평가하지 않거나 구성하지 않은 경우 사용됩니다. OnRamp Email From 필드에 배치됩니다. mta send mail-from username 및 mta send mail-from hostname

	있는 경우는 선택 사항입니다. 실패한 통화에 대한 디버그 mspi를 보려면 여기 를 클릭하십시오.
ip 도메인 이름	hostname.domain-name으로 HELO 메시지에서 이메일 발신자를 식별하는 데 사용됩니다. 이 명령을 구성한 후 라우터를 다시 로드해야 합니다.
application voice onramp flash:app libreto onramp.2.0.1.1.tcl	응용 프로그램의 전역 이름 (이 경우 onramp)과 해당 위치(이 경우 라우터의 플래시에서)를 정의합니다.
dial-peer voice 8913180 pots application onramp	이 다이얼 피어가 일치하면 응용 프로그램 onramp에 전화를 겁니다.
다이얼 피어 음성 1 mmoip 애플리케이션 fax on vfc onramp app 출력 바운드	이 MMoIP(Multimedia Mail over IP) 피어가 일치할 때 호출할 응용 프로그램입니다. Cisco IOS Software에 사전 번들로 제공됩니다. show call application voice summary 를 통해 표시됩니다.
선택적 매개 변수:	
mta 메일 보낸 사람 호스트 이름	OnRamp 이메일의 From 필드에서 사용할 호스트 이름입니다. mta send postmaster 명령이 없는 경우 필수입니다. mta send mail-from username 을 사용하는 경우 구성해야 합니다.
mta 사용자 이름 메일 보내기	OnRamp 전자 메일의 From 필드에서 사용할 발신자입니다. 전체 From 필드를 가져오기 위해 mta send mail-from hostname (즉, username@hostname)과 함께 사용합니다. mta send postmaster 명령이 없는 경우 필수입니다. mta send mail-from hostname 을 사용하는 경우 구성해야 합니다.
mta 전송 제목	OnRamp 전자 메일의 Subject 필드에 사용할 텍스트 문자열입니다.
mta 전송(제목 포함)	<ul style="list-style-type: none"> 발신자 번호를 키워드 \$\$과(와) 함께 추가합니다.

	<ul style="list-style-type: none"> 호출된 파티 번호를 키워드 \$d\$로 추가합니다. 발신 및 수신자 번호를 키워드 둘 다로 추가합니다. <p>디버그 표시를 보려면 여기를 클릭하십시오.</p>
mta 반환 수신 전송	키워드는 사용자 이름 및 호스트 이름 입니다. 함께 disposition-notification-to:username@hostname을 구성합니다.
dial-peer 음성 번호 <i>mmpip</i> mdn	이 MOIP 피어를 통해 전송된 이메일에 대한 요청 MDN(Message Disposition Notification)은 mta send return-receipt-to 명령에 의해 정의된 대상 으로 전송됩니다.
dial-peer 음성 번호 <i>mmpip</i> dsn { delay 성공 실패 }	mta send mail-from 명령에 의해 정의된 대상 으로 DSN(배달 상태 알림)을 보내도록 요청합니다.

[OnRamp 컨피그레이션](#)

```
vdctl-5300-7a# show running-config
Building configuration...
```

```
Current configuration : 2294 bytes
```

```
!
```

```
! Last configuration change at 10:49:16 EST Mon Mar 18 2003
```

```
! NVRAM config last updated at 11:00:42 EST Mon Mar 4 2003
```

```
!
```

```
version 12.2
```

```
service timestamps debug datetime msec localtime
```

```
service timestamps log datetime msec localtime
```

```
no service password-encryption
```

```
!
```

```
hostname vdctl-5300-7a
```

```
!
```

```
!
```

```
resource-pool disable
```

```
clock timezone EST -5
```

```
!
```

```
ip subnet-zero
```

```
ip domain-name testlab-t37.com
```

```
!--- The ip domain-name command is needed so the router sends a fully qualified !--- domain-name (FQDN) to the email server.
```

```
!--- Router must be reloaded after ip domain-name configuration due to a known bug !--- that has since been resolved.
```

```
ip name-server 172.18.106.36
```

!--- The ip name-server command is required in order to do name resolution.

!
!
isdn switch-type primary-5ess

!
fax receive called-subscriber 8913180
fax interface-type fax-mail

!
mta send server testlab-smtp.testlab-t37.com port 25

!--- The mta send server command identifies the email server for OnRamp emails.

!
mta send subject Fax from On-Ramp GW vdtl-5300-7a
mta send with-subject both
mta send postmaster administrator@testlab-t37.com

!
!--- The address set with mta send postmaster is used as the "From" address *!--- unless mta send mail-from* commands are defined.

!
mta send mail-from hostname vdtl-5300-7a.testlab-t37.com
mta send mail-from username \$\$
mta send return-receipt-to hostname testlab-t37.com
mta send return-receipt-to username admin
mta receive maximum-recipients 0
call-history-mib retain-timer 500

!
controller T1 0
framing esf
clock source line primary
linecode b8zs
pri-group timeslots 1-24

!
!
!
interface Ethernet0
ip address 15.80.7.11 255.255.255.0

!
interface Serial0:23
no ip address
isdn switch-type primary-5ess
isdn incoming-voice modem
no cdp enable
!
ip classless
ip route 0.0.0.0 0.0.0.0 15.80.7.1
no ip http server
ip pim bidir-enable

!
call rsvp-sync
!
call application voice onramp flash:app_libretto_onramp.2.0.1.1.tcl

!--- This identifies the call application to use. It is named "onramp" in !--- this example.
voice-port 0:D ! mgcp profile default ! dial-peer voice 1 mmoip application
fax_on_vfc_onramp_app out-bound destination-pattern 8913144 information-type fax session target
mailto:\$d@testlab-t37.com ! *!--- The MMoIP peers contain configuration specific to the called party number. !--- It requests MDN and DSN. It identifies the application to use for the outbound !--- call leg and specifies the address to which the email will be sent.* mdn dsn
success dsn failure ! dial-peer voice 891314 pots application onramp incoming called-number
891314[4-5] direct-inward-dial port 0:D *!--- The pots peers for T.37 are no different than for voice calls with the exception of !--- using the application defined above in the call application global configuration !--- command. The direct-inward-dial* command is required unless using a redialer.

```

!
line con 0
exec-timeout 0 0
line aux 0
line vty 0 4
login
!
ntp clock-period 17179806
ntp server 172.18.106.15
end

vdt1-5300-7a#

```

선택적 구성

다음은 몇 가지 선택적 컨피그레이션 매개변수입니다. 첫 번째 예는 기존 이메일 주소를 사용하여 여러 이메일 계정을 구성하는 방법을 보여줍니다. 두 번째 예는 이메일 주소에 대해 수신자 번호를 사용하여 여러 이메일 계정을 구성하는 방법을 보여줍니다.

예 1:

<pre> ! dial-peer voice 1 mmoip application fax_on_vfc_onram p_app out-bound destination- pattern 8913144 information- type fax session target mailto:andy@test lab-t37.com ! dial-peer voice 2 mmoip application fax_on_vfc_onram p_app out-bound destination- pattern 8913145 information- type fax session target mailto:bobby@tes tlab-t37.com ! dial-peer voice 891314 pots application onramp incoming called-number 891314[4-5] direct-inward- dial port 0:D ! </pre>	<p>이 컨피그레이션에서는 PRI에 두 개의 DID(Direct Inward Dialing) 번호가 있습니다. 891-3144 및 891-3145 전화를 건 번호에 따라 andy@testlab-t37.com 또는 bobby@testlab-t37.com으로 전자 메일이 전송됩니다.</p>
--	--

예 2:

<pre>! dial-peer voice 1 mmpip application fax_on_vfc_onramp_ app out-bound destination- pattern 8913144 information-type fax session target mailto:\$d\$@testlab -t37.com !</pre>	<p>이 컨피그레이션에서는 DNIS(Dialed Number Identification Service)(수신자 번호)가 RCPT TO:SMTP 명령.이를 통해 고객은 각 사용자에게 OnRamp 애플리케이션에 대한 DID를 제공할 수 있습니다.이메일 서버에 별칭을 추가하면 됩니다.3월 12일 15:42:12.947:(C)S:수신 :<FAX=8913144@testlab-t37.com></p>
--	--

참고: 이메일 별칭이 8913144@domain.com 대신 FAX=8913144@domain.com인지 확인하십시오. 그렇지 않으면 이메일이 제대로 전달되지 않습니다.

문제 해결

실패한 디버깅

참고: 컨피그레이션 변경 사항은 디버그 위에 표시됩니다.

```
debug mspi send  
!  
fax interface-type fax-mail  
mta send server testlab-smtp.testlab-t37.com port 25  
mta send mail-from hostname whatever.com  
mta receive maximum-recipients 0  
call-history-mib retain-timer 500  
!
```

참고: mta send mail-from username 명령은 mta send postmaster 명령과 마찬가지로 컨피그레이션에서 생략됩니다.

```
vdctl-5300-7a#  
Mar 4 10:03:29.165: mspi_setup_req: for cid=0x27  
Mar 4 10:03:29.165: envelope_from=FAX=@ !--- Note: This is not a valid email address (no  
domain). Mar 4 10:03:29.165: envelope_to=andy@testlab-t37.com  
Mar 4 10:03:30.165: mspi_chk_connect: cid=0x27, cnt=0,  
Mar 4 10:03:30.165: SMTP connected to the server ! !--- The connection to the SMTP server is  
initiated. Mar 4 10:03:30.165: mspi_bridge: cid=0x27, dst cid=0x28, Mar 4 10:03:56.985:  
mspi_xmit: cid=0x27, st=CONFERENCED, src_cid=0x28, buf cnt=0 Mar 4 10:03:56.985: %MSPI-4-  
MSPI_NO_SMTP_SEND: MSPI- Could not  
send data to the SMTP server, cid=39, mspi_on_xmit, lost connection  
Mar 4 10:03:56.985: mspi_on_xmit: cid=0x27, lost connection  
Mar 4 10:03:56.985: disc text=no route to destination (3): SMTP client engine  
lost connection !--- The statement "no route to destination" is a little misleading as a cause  
code. Mar 4 10:03:56.985: mspi_xmit: cid=0x27, st=ABORTING, src_cid=0x28 Mar 4 10:03:56.985:  
discarding buffer !--- Several lines of mspi_xmit debugs that were identical to the lines above  
!--- and below this note have been suppressed. Mar 4 10:03:56.989: mspi_xmit: cid=0x27,  
st=ABORTING, src_cid=0x28 Mar 4 10:03:56.993: discarding buffer Mar 4 10:03:56.993:
```

%LAPP_ON_MSGS-6-LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client did not connect or lost connection to remote server Mar 4 10:03:56.993: mspi_bridge_drop: cid=0x27, dst cid=0x28, st=ABORTING, onramp Mar 4 10:03:56.993: mspi_disconnect: cid=0x27, st=DISCONNECTING, cause=no route to destination (3) Mar 4 10:03:56.993: mspi_on_call_hist: cid=0x27, cause=no route to destination (3): SMTP client engine lost connection Mar 4 10:03:56.993: disposing smtp ctx Mar 4 10:03:56.993: mspi_free_ccb: mmccb allocated=1, inserted=0 vdtl-5300-7a#

이 디버그를 사용하면 동일한 문제를 좀 더 명확하게 볼 수 있습니다.

vdtl-5300-7a# **debug mta send all**

Mar 5 16:48:46.420: **smtp_client_engine_open: from=FAX=@, to=andy@testlab-t37.com**
Mar 5 16:48:46.420: **smtp_client_engine_add_headers: from_comment=Fax**
Mar 5 16:48:46.792: **smtp_client_work: socket 0 attempting to connect to IP address 172.18.106.36**
Mar 5 16:48:46.792: **smtp_client_work: socket 0 readable for first time**
Mar 5 16:48:46.792: **smtp_client_work: socket 0 readable for first time**
Mar 5 16:48:46.796: **(C)R: 220 testlab-smtp.testlab-t37.com Microsoft ESMTP MAIL Service, Version: 5.0.2195.4453 ready at Tue, 5 Mar 2002 16:48:12 -0500 !--- This is the SMTP server information displayed with the login.** Mar 5 16:48:46.796: **(C)S: EHLO vdtl-5300-7a.testlab-t37.com**
Mar 5 16:48:47.208: **(C)R: 250-testlab-smtp.testlab-t37.com Hello [15.80.7.11]**
!--- All the responses through the R: 250 OK are in response to the EHLO command from !--- the sender (the 5300). These are the capabilities of the receiver. Mar 5 16:48:47.208: **(C)R: 250-TURN** Mar 5 16:48:47.208: **(C)R: 250-ATRN** Mar 5 16:48:47.208: **(C)R: 250-SIZE** Mar 5 16:48:47.208: **(C)R: 250-ETRN** Mar 5 16:48:47.212: **(C)R: 250-PIPELINING** Mar 5 16:48:47.212: **(C)R: 250-DSN** Mar 5 16:48:47.212: **(C)R: 250-ENHANCEDSTATUSCODES** Mar 5 16:48:47.212: **(C)R: 250-8bitmime** Mar 5 16:48:47.212: **(C)R: 250-BINARYMIME** Mar 5 16:48:47.212: **(C)R: 250-CHUNKING** Mar 5 16:48:47.212: **(C)R: 250-VRFY** Mar 5 16:48:47.212: **(C)R: 250-X-EXPS GSSAPI NTLM LOGIN** Mar 5 16:48:47.212: **(C)R: 250-X-EXPS=LOGIN** Mar 5 16:48:47.212: **(C)R: 250-AUTH GSSAPI NTLM LOGIN** Mar 5 16:48:47.212: **(C)R: 250-AUTH=LOGIN** Mar 5 16:48:47.212: **(C)R: 250-X-LINK2STATE** Mar 5 16:48:47.212: **(C)R: 250-XEXCH50** Mar 5 16:48:47.212: **(C)R: 250 OK** Mar 5 16:48:47.212: **(C)S: MAIL FROM:**

!--- This is the mail from command.

Mar 5 16:48:47.708: **(C)R: 501 5.5.4 Invalid Address** *!--- The server does not like the address.* Mar 5 16:48:47.708: **smtp_client_work: error in response to MAIL FROM !--- This tells exactly where the problem occurred in the SMTP exchange.** Mar 5 16:48:47.708: **smtp_client_work: ERROR, socket=0** Mar 5 16:49:15.132: %MSPI-4-MSPI_NO_SMTP_SEND: MSPI- Could not send data to the SMTP server, cid=96, mspi_on_xmit, lost connection Mar 5 16:49:15.132: %LAPP_ON_MSGS-6-LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client did not connect or lost connection to remote server Mar 5 16:49:15.208: **smtp_client_work: Freeing ctx=0x62616C4C** Mar 5 16:49:15.208: **smtp_client: returned from work, context freed**

구성된 서버 없음

fax receive called-subscriber 8913180
fax interface-type fax-mail
mta send subject Fax from On-Ramp GW vdtl-5300-7a
mta send postmaster administrator@testlab-t37.com
mta send mail-from hostname vdtl-5300-7a.testlab-t37.com
mta send mail-from username \$\$
mta receive maximum-recipients 0

vdtl-5300-7a#
Mar 4 10:46:48.703: **mspi_setup_req: for cid=0x3F**
Mar 4 10:46:48.703: %MSPI-1-MSPI_BAD_CONFIG: MSPI-bad configuration, mspi_setup_req: NULL server ip address
Mar 4 10:46:48.703: **mspi_setup_req: NULL server address**
Mar 4 10:46:48.703: %LAPP_ON_MSGS-6-LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client

did not connect or lost connection to remote server
vdtl-5300-7a#

서버가 구성되었지만 서버에 대한 IP 경로가 없습니다.

vdtl-5300-7a# **debug mspi send**

Mail SPI send debugging is on

vdtl-5300-7a#

Mar 20 09:35:27.126: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510

Mar 20 09:35:29.306: mspi_setup_req: for cid=0x141

Mar 20 09:35:29.306: envelope_from=**FAX=8915510@vdtl-5300-7a.testlab-t37.com**

Mar 20 09:35:29.310: envelope_to=**FAX=8913144@testlab-t37.com**

Mar 20 09:35:30.310: mspi_chk_connect: cid=0x141, cnt=0,

Mar 20 09:35:30.310: SMTP is in the error state...

Mar 20 09:35:30.310: **disc text=no route to destination (3): SMTP client open failed**

Mar 20 09:35:30.310: **Still waiting for the SMTP connection..... !---** *You can tell that the SMTP connection was never established.* Mar 20 09:35:30.310: %LAPP_ON_MSGS-6-

LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client

did not connect or lost connection to remote server

Mar 20 09:35:30.310: mspi_disconnect: cid=0x141, st=DISCONNECTING, **cause=no route**

to destination (3) !--- *This cause code seems to be an accurate description of the problem.*

Mar 20 09:35:30.310: mspi_on_call_hist: cid=0x141, **cause=no route to destination (3):**

SMTP client open failed

Mar 20 09:35:30.310: disposing smtp ctx

Mar 20 09:35:30.310: mspi_free_ccb: mmccb allocated=1, inserted=0

Mar 20 09:35:36.006: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510,
call lasted 14 seconds

vdtl-5300-7a#

참고: 라우터가 MS Exchange 서버에 FQDN(정규화된 도메인 이름)을 보내지 않고 구문을 좋아하지 않습니다."ip domain-name *domain*"을 추가한 후 라우터를 다시 로드해야 하기 때문입니다.

vdtl-5300-7a# **debug mmoip send email andy@testlab-t37.com**

vdtl-5300-7a#

Mar 28 09:55:16.768: %SYS-5-CONFIG_I: Configured from console by console

Mar 28 09:55:17.936: esmtp_client_engine_open: from=testing@vdtl-5300-7a.testlab-t37.com,
to=andy@testlab-t37.com

Mar 28 09:55:17.940: esmtp_client_engine_add_headers: from_comment=mspi Test User

Mar 28 09:55:18.072: esmtp_client_work: socket 0 attempting to connect to IP
address 172.18.106.36

Mar 28 09:55:18.072: esmtp_client_work: socket 0 readable for first time

Mar 28 09:55:18.072: esmtp_client_work: socket 0 readable for first time

Mar 28 09:55:18.076: (C)R: 220 testlab-smtp.testlab-t37.com Microsoft ESMTP MAIL Service,
Version: 5.0.2195.4453 ready at Thu, 28 Mar 2002 09:54:02 -0500

Mar 28 09:55:18.076: (C)**S: EHLO vdtl-5300-7a.** *!---* *The Exchange server does not like the trailing dot (.).* Mar 28 09:55:18.484: (C)**R: 501 5.5.4 Invalid Address**

Mar 28 09:55:18.484: esmtp_client_work: EHLO failed; will try sending HELO

Mar 28 09:55:18.484: (C)**S: HELO vdtl-5300-7a.**

Mar 28 09:55:18.984: (C)**R: 501 5.5.4 Invalid Address**

Mar 28 09:55:18.984: esmtp_client_work: error in response to HELO

Mar 28 09:55:18.984: esmtp_client_work: ERROR, socket=0

Mar 28 09:55:18.984: esmtp_client_work: Freeing ctx=0x62661F18

Mar 28 09:55:18.988: esmtp_client: returned from work, context freed

vdtl-5300-7a#

작업 디버깅

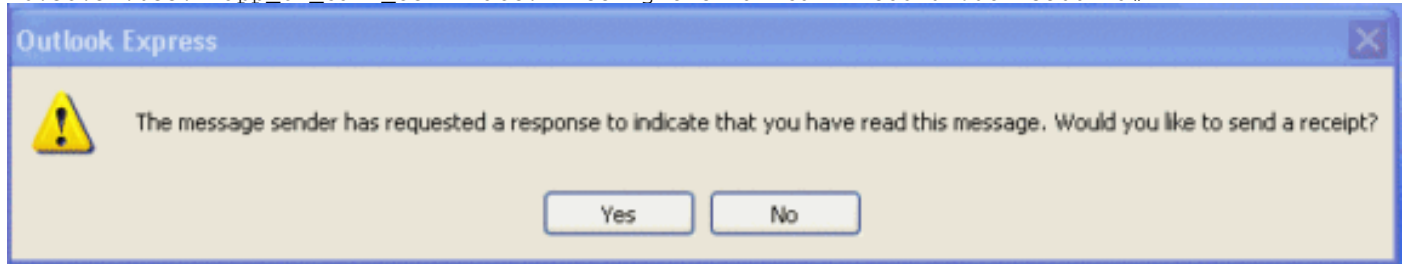
이러한 **debug** 명령은 OnRamp의 SMTP 측에 사용됩니다.

vdtl-5300-7a# **debug foip on-ramp**

FOIP On ramp faxmail debugging is on
vdtl-5300-7a#
Mar 18 10:57:50.995: lapp_on_application: Incoming Event: (15 = CC_EV_CALL_HANDOFF),
CID(216), DISP(0)
Mar 18 10:57:50.995: lapp_on_call_handoff: Authentication enabled = FALSE
Mar 18 10:57:50.995: lapp_on_call_handoff: Authentication ID = 0
Mar 18 10:57:50.995: lapp_on_call_handoff: Authentication ID source = IVR or unknown
Mar 18 10:57:50.999: lapp_on_call_handoff: Authentication status = SUCCESS
Mar 18 10:57:50.999: lapp_on_call_handoff: Accounting enabled = FALSE
Mar 18 10:57:50.999: lapp_on_call_handoff: Accounting method list = fax
Mar 18 10:57:50.999: lapp_on_call_handoff: Mailto Address =
Mar 18 10:57:50.999: lapp_on_conference_vtsp_fmosp: Begin conferencing VTSP and FMOSP...
Mar 18 10:57:50.999: lapp_on_change_state: old state(0) new state(1) *!--- HANDOFF to
VTSP_FMOSP_CONFERENCING* Mar 18 10:57:51.003: lapp_on_application: Incoming Event: (29 =
CC_EV_CONF_CREATE_DONE), CID(216), DISP(0) Mar 18 10:57:51.003: lapp_on_application: Current
call state = 1 Mar 18 10:57:51.003: lapp_on_conference_created: **The VTSP and the FMOSP are
conferenced**
Mar 18 10:57:51.003: lapp_on_conference_created: Wait for FMOSP call detail event
Mar 18 10:57:51.003: lapp_on_change_state: old state(1) new state(2) *!--- VTSP_FMOSP_CONFERENCING
to FMOSP_CALL_DETAIL* Mar 18 10:57:57.075: %ISDN-6-CONNECT: Interface Serial0:18 is now connected
to 8915510 Mar 18 10:57:59.135: lapp_on_application: Incoming Event: (33 =
CC_EV_FROM_FMOSP_ON_CALL_DETAIL), CID(217), DISP(0) Mar 18 10:57:59.139: lapp_on_application:
Current call state = 2 Mar 18 10:57:59.139: lapp_on_msp_event: Incoming call detail has arrived
from the FMOSP Mar 18 10:57:59.139: lapp_on_setup_msmpi: Prep MSPI ccCallSetupRequest... Mar 18
10:57:59.139: lapp_on_setup_msmpi: **Envelope from: FAX=8915510@vdtl-5300-7a.testlab-t37.com**
Mar 18 10:57:59.139: lapp_on_setup_msmpi: **Envelope to: FAX=8913144@testlab-t37.com**
Mar 18 10:57:59.139: lapp_on_setup_msmpi: rfc822_to_comment: 8913144
Mar 18 10:57:59.139: lapp_on_setup_msmpi: **Faxmail subject: Fax from On-Ramp GW vdtl-5300-7a
[DNIS=8913144] [ANI=8915510]**
Mar 18 10:57:59.139: lapp_on_setup_msmpi: **Disposition notification to: admin@testlab-t37.com
!--- A read receipt is sent to admin@testlab-t37.com if the reader so chooses.** Mar 18
10:57:59.139: lapp_on_setup_msmpi: Originator's TSI = rfc822_from_comment = Fax Mar 18
10:57:59.139: lapp_on_setup_msmpi: Auth/Account ID = 0 Mar 18 10:57:59.139: lapp_on_setup_msmpi:
Do ccCallSetupRequest to MSPI Mar 18 10:57:59.139: lapp_on_conference_fmosp_dmosp: Starting
conference with FMOSP and DMOSP Mar 18 10:57:59.139: lapp_on_conference_fmosp_dmosp: **tiff file
created = 2002:03:18 10:57:59**
Mar 18 10:57:59.139: lapp_on_change_state: old state(2) new state(3) *!--- FMOSP_CALL_DETAIL to
FMOSP_DMOSP_CONFERENCING* Mar 18 10:57:59.139: lapp_on_application: Incoming Event: (29 =
CC_EV_CONF_CREATE_DONE), CID(217), DISP(0) Mar 18 10:57:59.139: lapp_on_application: Current
call state = 3 Mar 18 10:57:59.139: lapp_on_conference_created: The FMOSP and the DMOSP are
conferenced Mar 18 10:57:59.139: lapp_on_conference_created: Sending
CC_EV_TO_FMOSP_ON_RECEIVE_ENABLE to FMOSP Mar 18 10:57:59.139: lapp_on_change_state: old state(3)
new state(4) *!--- FMOSP_DMOSP_CONFERENCING to FMOSP_PAGE_ACCEPT_REQUESTED* Mar 18 10:58:00.139:
lapp_on_application: Incoming Event: (8 = CC_EV_CALL_CONNECTED), CID(218), DISP(0) Mar 18
10:58:00.139: lapp_on_application: Current call state = 4 Mar 18 10:58:00.139:
lapp_on_call_connected: **Call connected event received.... - CID(218)**
Mar 18 10:58:00.139: lapp_on_call_connected: MSPI call connected - CID(218)
Mar 18 10:58:00.139: lapp_on_call_connected: Start conferencing the DMOSP and the MSPI
Mar 18 10:58:00.139: lapp_on_application: Incoming Event: (29 = CC_EV_CONF_CREATE_DONE),
CID(219), DISP(0)
Mar 18 10:58:00.139: lapp_on_application: Current call state = 4
Mar 18 10:58:11.539: lapp_on_application: Incoming Event:
(36 = CC_EV_FROM_FMOSP_ON_PAGE_ACCEPT_REQUESTED), CID(217), DISP(0)
Mar 18 10:58:11.539: lapp_on_application: Current call state = 4
Mar 18 10:58:11.539: lapp_on_msp_event: **Page accept request arrived from fmosp**
Mar 18 10:58:11.539: lapp_on_msp_event: **Sending page accept event to the FMOSP**
Mar 18 10:58:11.539: lapp_on_msp_event: **Pages processed = 1**
!--- The first fax page is received. Mar 18 10:58:11.539: lapp_on_change_state: old state(4) new
state(4) Mar 18 10:58:16.015: lapp_on_application: Incoming Event: (37 =
CC_EV_FROM_DMOSP_ON_PAGE_PROCESSED), CID(219), DISP(146) Mar 18 10:58:16.015:
lapp_on_application: Current call state = 4 Mar 18 10:58:16.015: lapp_on_msp_event: Page
processed event arrived from the DMOSP Mar 18 10:58:16.015: lapp_on_change_state: old state(4)
new state(4) Mar 18 10:58:30.719: lapp_on_application: Incoming Event: (36 =
CC_EV_FROM_FMOSP_ON_PAGE_ACCEPT_REQUESTED), CID(217), DISP(0) Mar 18 10:58:30.719:

lapp_on_application: Current call state = 4 Mar 18 10:58:30.719: lapp_on_msp_event: **Page accept request arrived from fmsp**
Mar 18 10:58:30.719: lapp_on_msp_event: **Sending page accept event to the FMSP**
Mar 18 10:58:30.719: lapp_on_msp_event: **Pages processed = 2**
!--- The second fax page is received. Mar 18 10:58:30.719: lapp_on_change_state: old state(4) new state(4) Mar 18 10:58:32.199: lapp_on_application: Incoming Event: (37 = CC_EV_FROM_DMSP_ON_PAGE_PROCESSED), CID(219), DISP(0) Mar 18 10:58:32.199: lapp_on_application: Current call state = 4 Mar 18 10:58:32.199: lapp_on_msp_event: Page processed event arrived from the DMSP Mar 18 10:58:32.199: lapp_on_change_state: old state(4) new state(4) Mar 18 10:58:34.355: lapp_on_application: Incoming Event: (11 = CC_EV_CALL_DISCONNECTED), CID(218), DISP(0) Mar 18 10:58:34.355: lapp_on_application: Current call state = 4 Mar 18 10:58:34.355: lapp_on_call_disconnected: Call Disconnected - CID= 218 cause= 0x10 call_state= 4 Mar 18 10:58:34.355: lapp_on_call_disconnected: MSPI disconnected Mar 18 10:58:34.355: lapp_on_call_disconnected: **Faxmail acknowledged by remote SMTP server**
Mar 18 10:58:34.355: lapp_on_change_state: old state(4) new state(7) *!--- FMSP_PAGE_ACCEPT_REQUESTED to CONFERENCE_DESTROYING* Mar 18 10:58:34.355: lapp_on_conference_cleanup: Destroying conferences... Mar 18 10:58:34.355: lapp_on_conference_cleanup: **Destroying conference for VTSP & FMSP**
Mar 18 10:58:34.355: lapp_on_conference_cleanup: **Destroying conference for FMSP & DMSP**
Mar 18 10:58:34.355: lapp_on_conference_cleanup: **Destroying conference for DMSP & MSPI**
Mar 18 10:58:34.355: lapp_on_application: Incoming Event: (30 = CC_EV_CONF_DESTROY_DONE), CID(217), DISP(0)
Mar 18 10:58:34.355: lapp_on_application: Current call state = 7
Mar 18 10:58:34.355: lapp_on_conference_destroyed: FMSP/DMSP conference destroyed
Mar 18 10:58:34.355: lapp_on_conference_destroyed: Conference destroyed.... confID = 150
Mar 18 10:58:34.355: lapp_on_application: Incoming Event: (30 = CC_EV_CONF_DESTROY_DONE), CID(219), DISP(0)
Mar 18 10:58:34.355: lapp_on_application: Current call state = 7
Mar 18 10:58:34.355: lapp_on_conference_destroyed: DMSP/MSPI conference destroyed
Mar 18 10:58:34.355: lapp_on_conference_destroyed: Conference destroyed.... confID = 151
Mar 18 10:58:34.355: lapp_on_application: Incoming Event: (30 = CC_EV_CONF_DESTROY_DONE), CID(216), DISP(0)
Mar 18 10:58:34.355: lapp_on_application: Current call state = 7
Mar 18 10:58:34.355: lapp_on_conference_destroyed: VTSP/FMSP conference destroyed
Mar 18 10:58:34.355: lapp_on_conference_destroyed: Conference destroyed.... confID = 149
Mar 18 10:58:34.355: lapp_on_change_state: old state(7) new state(8) *!--- CONFERENCE_DESTROYING to DISCONNECTING* Mar 18 10:58:34.355: lapp_on_conference_destroyed: All conferences are destroyed. Mar 18 10:58:34.355: lapp_on_change_state: old state(8) new state(8) Mar 18 10:58:34.355: lapp_on_call_leg_cleanup: Sending disconnect for FMSP Mar 18 10:58:34.359: lapp_on_call_leg_cleanup: Sending disconnect for DMSP Mar 18 10:58:34.359: lapp_on_application: Incoming Event: (12 = CC_EV_CALL_DISCONNECT_DONE), CID(219), DISP(0) Mar 18 10:58:34.359: lapp_on_application: Current call state = 8 Mar 18 10:58:34.359: lapp_on_disconnect_done: Received call disconnect done ... callID = 219 Mar 18 10:58:34.359: lapp_on_disconnect_done: DMSP disconnect done Mar 18 10:58:34.359: lapp_on_disconnect_done: Sending disconnect for MSPI Mar 18 10:58:34.359: lapp_on_application: Incoming Event: (12 = CC_EV_CALL_DISCONNECT_DONE), CID(218), DISP(0) Mar 18 10:58:34.359: lapp_on_application: Current call state = 8 Mar 18 10:58:34.359: lapp_on_disconnect_done: Received call disconnect done ... callID = 218 Mar 18 10:58:34.359: lapp_on_disconnect_done: MSPI disconnect done Mar 18 10:58:34.363: lapp_on_application: Incoming Event: (12 = CC_EV_CALL_DISCONNECT_DONE), CID(217), DISP(0) Mar 18 10:58:34.363: lapp_on_application: Current call state = 8 Mar 18 10:58:34.363: lapp_on_disconnect_done: Received call disconnect done ... callID = 217 Mar 18 10:58:34.363: lapp_on_disconnect_done: FMSP disconnect done Mar 18 10:58:34.363: lapp_on_disconnect_done: Sending disconnect for VTSP Mar 18 10:58:36.627: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 45 seconds Mar 18 10:58:37.647: lapp_on_application: Incoming Event: (28 = CC_EV_CALL_FEATURE), CID(216), DISP(0) Mar 18 10:58:37.647: lapp_on_application: Current call state = 8 Mar 18 10:58:37.647: lapp_on_event_unsupported: Unsupported event received--- Mar 18 10:58:37.647: lapp_on_event_unsupported: EV(28=CC_EV_CALL_FEATURE), CID(216), disp(0) Mar 18 10:58:37.647: lapp_on_event_unsupported: Current call state = 8 Mar 18 10:58:37.651: lapp_on_application: Incoming Event: (12 = CC_EV_CALL_DISCONNECT_DONE), CID(216), DISP(0) Mar 18 10:58:37.651: lapp_on_application: Current call state = 8 Mar 18 10:58:37.651: lapp_on_disconnect_done: **Received call disconnect done ... callID = 216**
Mar 18 10:58:37.651: lapp_on_disconnect_done: **VTSP disconnect done**
Mar 18 10:58:37.651: lapp_on_disconnect_done: All the calls are now void or disconnected

Mar 18 10:58:37.651: lapp_on_change_state: old state(8) new state(9)!--- *DISCONNECTING to TERMINAL* Mar 18 10:58:37.651: lapp_on_call_terminate: Freeing the IVR call handoff record Mar 18 10:58:37.655: lapp_on_call_terminate: Freeing the fax call record vdt1-5300-7a#



이메일을 수신하는 클라이언트는 MDN 집합이 포함된 이메일을 열 때 위와 유사한 창을 표시합니다. 요청자가 받는 응답은 사용자에게 보내는 이메일의 형태로 "이것은 "8913144" <Fax=8913144@testlab-t37.com>으로 보낸 이메일의 수신입니다(3/18/2002 10:58AM). 이 확인서는 수신자의 컴퓨터에 메시지가 3/18/2002 11:07 AM에 표시되었는지 확인합니다."

vdt1-5300-7a# **debug mta send all**

All email send debugging is on

vdt1-5300-7a#

Mar 18 14:50:46.278: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510

Mar 18 14:50:48.474: esmtp_client_engine_open:

from=FAX=8915510@vdt1-5300-7a.testlab-t37.com, to=FAX=8913144@testlab-t37.com

Mar 18 14:50:48.474: esmtp_client_engine_add_headers: from_comment=Fax

Mar 18 14:50:48.702: esmtp_client_work: socket 0 attempting to connect to IP address 172.18.106.36

Mar 18 14:50:48.702: esmtp_client_work: socket 0 readable for first time

Mar 18 14:50:48.702: esmtp_client_work: socket 0 readable for first time

Mar 18 14:50:48.706: (C)R: 220 testlab-smtp.testlab-t37.com Microsoft ESMTP MAIL Service, Version: 5.0.2195.4453 ready at Mon, 18 Mar 2002 14:49:51 -0500

Mar 18 14:50:48.706: (C)S: **EHLO vdt1-5300-7a.testlab-t37.com**

Mar 18 14:50:49.166: (C)R: **250-testlab-smtp.testlab-t37.com Hello [15.80.7.11]**

Mar 18 14:50:49.166: (C)R: 250-TURN

Mar 18 14:50:49.170: (C)R: 250-ATRN

Mar 18 14:50:49.170: (C)R: 250-SIZE

Mar 18 14:50:49.170: (C)R: 250-ETRN

Mar 18 14:50:49.170: (C)R: 250-PIPELINING

Mar 18 14:50:49.170: (C)R: 250-DSN

Mar 18 14:50:49.170: (C)R: 250-ENHANCEDSTATUSCODES

Mar 18 14:50:49.170: (C)R: 250-8bitmime

Mar 18 14:50:49.170: (C)R: 250-BINARYMIME

Mar 18 14:50:49.170: (C)R: 250-CHUNKING

Mar 18 14:50:49.170: (C)R: 250-VRFY

Mar 18 14:50:49.170: (C)R: 250-X-EXPS GSSAPI NTLM LOGIN

Mar 18 14:50:49.170: (C)R: 250-X-EXPS=LOGIN

Mar 18 14:50:49.170: (C)R: 250-AUTH GSSAPI NTLM LOGIN

Mar 18 14:50:49.170: (C)R: 250-AUTH=LOGIN

Mar 18 14:50:49.170: (C)R: 250-X-LINK2STATE

Mar 18 14:50:49.170: (C)R: 250-XEXCH50

Mar 18 14:50:49.170: (C)R: 250 OK

Mar 18 14:50:49.170: (C)S: **MAIL FROM:**

Mar 18 14:50:49.666: (C)R: 250 2.1.0 FAX=8915510@vdt1-5300-7a.testlab-t37.com...Sender OK

Mar 18 14:50:49.666: (C)S: **RCPT TO:**

ORCPT=rfc822;FAX+3D8915510@vdtl-5300-7a.testlab-t37.com
Mar 18 14:50:50.170: (C)R: 250 2.1.5 FAX=8913144@testlab-t37.com
Mar 18 14:50:50.698: (C)R: **354 Start mail input; end with**

Mar 18 14:50:50.698: (C)S: Received: by vdtl-5300-7a.testlab-t37.com for Mar 18 14:51:05.706:
esmtplib-client-work: writing lingering data for socket 0 Mar 18 14:51:05.714: esmtplib-client-work:
writing lingering data for socket 0 Mar 18 14:51:14.726: esmtplib-client-work: writing lingering
data for socket 0 Mar 18 14:51:14.734: esmtplib-client-work: writing lingering data for socket 0
Mar 18 14:51:14.738: (C)S: --yradnuob=008B2002145048474.vdtl-5300-7a.testlab-t37.com-- Mar 18
14:51:14.738: esmtplib-client-work: Sending terminating dot ... (socket=0) Mar 18 14:51:14.738:
(C)S: . !--- This is the terminating dot to end the SMTP session. Mar 18 14:51:14.986: (C)R: 250
2.6.0 <008C2002145050698@vdtl-5300-7a.testlab-t37.com> Queued mail for delivery Mar 18
14:51:14.986: (C)S: **QUIT**
Mar 18 14:51:15.406: (C)R: **221 2.0.0 testlab-smtp.testlab-t37.com Service closing
transmission channel**
Mar 18 14:51:15.406: esmtplib-client-work: Freeing ctx=0x6266946C
Mar 18 14:51:15.406: esmtplib-client: returned from work, context freed
Mar 18 14:51:18.938: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 ,
call lasted 38 seconds
vdtl-5300-7a#

vdtl-5300-7a# **debug dmsp fax-to-doc**

Doc MSP fax to doc debugging is on

vdtl-5300-7a#

Mar 18 14:53:03.338: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510

Mar 18 14:53:05.530: docmsp_call_setup_request: callid=227

Mar 18 14:53:05.530: docmsp_call_setup_request(): **ramp data dir=ONRAMP, conf dir=DEST**

Mar 18 14:53:05.534: docmsp_caps_ind: call id=227, src=225

Mar 18 14:53:05.534: docmsp_bridge cfid=156, srccid=227, dstcid=225

Mar 18 14:53:05.534: docmsp_bridge(): ramp data dir=ONRAMP, conf dir=DEST, encode out=2

Mar 18 14:53:06.530: docmsp_bridge cfid=157, srccid=227, dstcid=226

Mar 18 14:53:06.530: docmsp_bridge(): ramp data dir=ONRAMP, conf dir=SRC, encode out=2

Mar 18 14:53:11.510: docmsp_xmit: call id src=225, dst=227

Mar 18 14:53:11.510: docmsp_process_rcv_data: call id src=225, dst=227

Mar 18 14:53:12.350: docmsp_xmit: call id src=225, dst=227

!--- Output suppressed. Mar 18 14:53:22.242: docmsp_process_rcv_data: call id src=225, dst=227

Mar 18 14:53:22.242: docmsp_get_msp_event_buffer: Mar 18 14:53:23.082: docmsp_xmit: call id

src=225, dst=227 Mar 18 14:53:23.082: docmsp_process_rcv_data: call id src=225, dst=227 Mar 18

14:53:23.922: docmsp_xmit: call id src=225, dst=227 *!--- Output suppressed.* Mar 18 14:53:36.950:

docmsp_process_rcv_data: call id src=225, dst=227 Mar 18 14:53:38.430: docmsp_xmit: call id

src=225, dst=227 Mar 18 14:53:38.430: docmsp_process_rcv_data: call id src=225, dst=227 Mar 18

14:53:38.434: docmsp_get_msp_event_buffer: Mar 18 14:53:41.022: docmsp_bdrop cfid=156,

srccid=227, dstcid=225 Mar 18 14:53:41.022: docmsp_bdrop cfid=157, srccid=227, dstcid=226 Mar 18

14:53:41.026: docmsp_call_disconnect: callid=227 Mar 18 14:53:41.026: docmsp_do_call_history:

call id=227 Mar 18 14:53:42.886: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from

8915510 , call lasted 45 seconds vdtl-5300-7a#

참고: debug mmoip send email address 명령은 화면 자체에 아무것도 표시하지 않지만 매우 유용합니다. SMTP 클라이언트로 라우터를 사용하여 debug 명령에 지정된 주소로 이메일을 전송합니다. 이 전자 메일에는 구성에 정의된 제목이 있으며 "mspi 테스트 사용자"의 제목이 있습니다. "Cisco Powered Libreto FaxMail을 통해 전송된 테스트 이메일 메시지입니다."라는 텍스트가 첨부되어 있습니다.

다음은 OnRamp의 팩스 측면에 대한 디버깅입니다.

Mar 19 14:46:31.100: t30 call4Leg=307, state=1, substate=4
Mar 19 14:46:31.100: fax2_response_receive: PROCESSING
Mar 19 14:46:31.532: t30 call4Leg=307, state=1, substate=4
Mar 19 14:46:31.532: fax2_response_receive: PROCESSING
Mar 19 14:46:31.532: msg dump:FF C8 C1 0 47 E
Mar 19 14:46:31.532:
Mar 19 14:46:31.532: t30 call4Leg=307, state=1, substate=4
Mar 19 14:46:31.532: fax2_response_receive: PROCESSING
Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=4
Mar 19 14:46:31.672: in response receive WAIT FOR CD
Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=9 *!--- The substate is changed to RX_TCF.* Mar 19 14:46:31.672: **received DCS_PACKET, BR: 9, *!--- BR=v.21 14400 resolution: 1, encoding: 1, remote_id_string: Fax***
Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=10 *!--- The substate is changed to WAIT_FOR_FDR.* Mar 19 14:46:31.672: wait for ready for data from application Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=12 *!--- The substate is changed to TX_TCF_RESPONSE.* Mar 19 14:46:31.672: **send CFR_PACKET**
Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=6 *!--- The substate is changed to CONFIGURE_RX_DATA.* Mar 19 14:46:31.672: fax2_configure_rx_data: STILL_LOOKING, T2 timer not expired Mar 19 14:46:36.472: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:36.472: fax2_configure_rx_data: **DETECTED_DATA**
Mar 19 14:46:36.472: t30 call4Leg=307, state=2, substate=43 *!--- state = PHASE_C_RECEIVE, substate=RX_FIRST_DATA_BYTE - starting to RX page data...* Mar 19 14:46:36.472: No data yet Mar 19 14:46:43.872: t30 call4Leg=307, state=2, substate=14 *!--- The substate is changed to RX_DATA.*
Mar 19 14:46:43.872: **end of page**
Mar 19 14:46:43.872: t30 call4Leg=307, state=1, substate=6 *!--- The substate is changed to CONFIGURE_RX_DATA.* Mar 19 14:46:43.872: fax2_configure_rx_data: STILL_LOOKING, T2 timer not expired Mar 19 14:46:43.872: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:43.872: fax2_configure_rx_data: STILL_LOOKING, T2 timer not expired Mar 19 14:46:44.140: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:44.140: fax2_configure_rx_data: **DETECTED_COMMAND**
Mar 19 14:46:44.140: t30 call4Leg=307, state=1, substate=7 *!--- The substate is changed to RX_COMMAND.* Mar 19 14:46:44.140: fax2_command_receive: NO_COMMAND, T2 timer not expired Mar 19 14:46:45.200: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:45.200: fax2_command_receive: PROCESSING Mar 19 14:46:45.200: msg dump:FF C8 F2 Mar 19 14:46:45.200: Mar 19 14:46:45.200: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:45.200: fax2_command_receive: PROCESSING Mar 19 14:46:45.352: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:45.352: fax2_command_receive: **RECEIVED_COMMAND** Mar 19 14:46:45.352: t30 call4Leg=307, state=3, substate=8 *!--- The substate is changed to ROUTE_COMMAND.* Mar 19 14:46:45.352: **received MPS *!--- Received Multipage Signal.*** Mar 19 14:46:45.352: t30 call4Leg=307, state=3, substate=10 *!--- The substate is changed to WAIT_FOR_FDR.* Mar 19 14:46:45.352: waiting for page acceptance by the application Mar 19 14:46:45.352: t30 call4Leg=307, state=3, substate=17 *!--- The substate is changed to SCHEDULE_PP_RESPONSE.* Mar 19 14:46:45.352: **send MCF *!--- Send a Message Confirmation.*** Mar 19 14:46:45.352: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:45.352: fax2_configure_rx_data: STILL_LOOKING, T2 timer not expired Mar 19 14:46:47.172: t30 call4Leg=307, state=1, substate=6

*!--- Now this must be done again, starting from the page data, because two pages *!--- are being sent.** Mar 19 14:46:47.172: fax2_configure_rx_data: **DETECTED_DATA** Mar 19 14:46:47.172: t30 call4Leg=307, state=2, substate=43 *!--- state = PHASE_C_RECEIVE, substate=RX_FIRST_DATA_BYTE - starting to RX page data...* Mar 19 14:46:47.172: No data yet Mar 19 14:46:56.212: t30 call4Leg=307, state=2, substate=14 *!--- The substate is changed to RX_DATA.* Mar 19 14:46:56.212: end of page Mar 19 14:46:56.212: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.212: fax2_configure_rx_data: STILL_LOOKING, T2 timer not expired Mar 19 14:46:56.212: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.212: fax2_configure_rx_data: STILL_LOOKING, T2 timer not expired Mar 19 14:46:56.512: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.512: fax2_configure_rx_data: **DETECTED_COMMAND** Mar 19 14:46:56.512: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:56.512: fax2_command_receive: NO_COMMAND, T2 timer not expired Mar 19 14:46:57.552: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.552: fax2_command_receive: PROCESSING Mar 19 14:46:57.552: msg dump:FF C8 F4 Mar 19 14:46:57.552: Mar 19 14:46:57.552: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.552: fax2_command_receive: PROCESSING Mar 19 14:46:57.700: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.700: fax2_command_receive: **RECEIVED_COMMAND** Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=8 Mar 19 14:46:57.700: **received EOP**

```
!--- Received End of Procedure. Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=10 Mar
19 14:46:57.700: waiting for page acceptance by the application Mar 19 14:46:57.700: t30
call4Leg=307, state=3, substate=17 Mar 19 14:46:57.700: send MCF
!--- Send a Message Confirmation. Mar 19 14:46:57.700: t30 call4Leg=307, state=1, substate=6 Mar
19 14:46:57.704: fax2_configure_rx_data: STILL_LOOKING, T2 timer not expired Mar 19
14:46:58.140: t30 call4Leg=307, state=0, substate=6 !--- state=PHASE_IDLE Mar 19 14:46:58.140:
fax session aborted by application Mar 19 14:47:02.188: %ISDN-6-DISCONNECT: Interface Serial0:18
disconnected from 8915510 , call lasted 38 seconds vdt1-5300-7a#
```

```
vdt1-5300-7a# debug fax relay t30 called-number 8913144
```

```
Debugging fax relay t30 to 8913144
```

```
vdt1-5300-7a#
```

```
Mar 19 14:40:19.134: 0:D:302 1205778176 fr-entered (10ms)
Mar 19 14:40:22.498: 0:D:302 1205781540 fr-msg-tx CSI
Mar 19 14:40:23.826: 0:D:302 1205782870 fr-msg-tx DIS
Mar 19 14:40:25.070: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510
Mar 19 14:40:26.146: 0:D:302 1205785190 fr-msg-det TSI
Mar 19 14:40:27.026: 0:D:302 1205786070 fr-msg-det DCS
Mar 19 14:40:30.558: 0:D:302 1205789600 fr-msg-tx CFR
Mar 19 14:40:40.766: 0:D:302 1205799810 fr-msg-det MPS
Mar 19 14:40:41.266: 0:D:302 1205800310 fr-msg-tx MCF
Mar 19 14:40:53.098: 0:D:302 1205812140 fr-msg-det EOP
Mar 19 14:40:53.598: 0:D:302 1205812640 fr-msg-tx MCF
Mar 19 14:40:56.390: 0:D:302 1205815430 fr-msg-det DCN
Mar 19 14:40:57.682: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 ,
call lasted 38 seconds
Mar 19 14:40:58.518: 0:D:302 1205817560 fr-end-dcn
```

fr-msg-tx indicates T.30 messages that are transmitted by the router

fr-msg-det indicates T.30 messages that are received by the router

자세한 내용은 [팩스 릴레이 문제 해결 가이드](#)를 참조하십시오.

show 명령

```
vdt1-5300-7a# show call history fax brief
```

```
<ID>: <start>hs.<index> +<connect> +<disc> pid:<peer_id> <direction> <addr>
dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <disc-cause>(<text>)
IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>
delay:<last>/<min>/<max>ms <codec>
MODEMPASS <method> buf:<fills>/<drains> loss <overall%> <multipkt>/<corrected>
last <buf event time>s dur:<Min>/<Max>s
FR <protocol> [int dlci cid] vad:<y/n> dtmf:<y/n> seq:<y/n>
<codec> (payload size)
ATM <protocol> [int vpi/vci cid] vad:<y/n> dtmf:<y/n> seq:<y/n>
<codec> (payload size)
Telephony <int>: tx:<tot>/<voice>/<fax>ms <codec> noise:<lvl>dBm acom:<lvl>dBm
Proxy <ip>:<audio udp>,<video udp>,<tcp0>,<tcp1>,<tcp2>,<tcp3> endpt: <type>/<manf>
bw: <req>/<act> codec: <audio>/<video>
tx: <audio pkts>/<audio bytes>,<video pkts>/<video bytes>,<t120 pkts>/<t120 bytes>
rx: <audio pkts>/<audio bytes>,<video pkts>/<video bytes>,<t120 pkts>/<t120 bytes>
```

```
Telephony call-legs: 3
```

```
SIP call-legs: 0
```

```
H323 call-legs: 0
```

```
Total call-legs: 5
```

```
1225 : 374672hs.31 +2 +1367 pid:8913180 Answer 8915510
```

```
dur 00:00:13 tx:7/124 rx:104/693 10 :1F (normal call clearing (16):normal,
unspecified (31): User abort)
```


Telephony 0:D:61: tx:0/0/0ms 14400 noise:0dBm acom:0dBm

122B : 401714hs.32 +100 +2966 pid:1 Originate andy@testlab-t37.com
dur 00:00:28 tx:50942/0 rx:0/0 10 :0 (normal call clearing (16):)
IP 172.18.106.36 AcceptedMime:0 DiscardedMime:0

1229 : 400917hs.33 +1 +4108 pid:8913180 Answer 8915510
dur 00:00:41 tx:11/164 rx:760/45251 10 :10 (normal call clearing (16):normal
call clearing (16): Normal conn)
Telephony 0:D:64: tx:0/0/0ms 14400 noise:0dBm acom:0dBm

1230 : 439580hs.34 +100 +2971 pid:1 Originate andy@testlab-t37.com
dur 00:00:28 tx:50942/0 rx:0/0 10 :0 (normal call clearing (16):)
IP 172.18.106.36 AcceptedMime:0 DiscardedMime:0

122E : 438783hs.35 +1 +4109 pid:8913180 Answer 8915510
dur 00:00:41 tx:11/164 rx:761/45256 10 :10 (normal call clearing (16):normal
call clearing (16): Normal conn)
Telephony 0:D:68: tx:0/0/0ms 14400 noise:0dBm acom:0dBm

관련 정보

- [T.37 OffRamp 팩스](#)
- [Fax over IP T.37 저장소 및 팩스 전달](#)
- [음성 기술 지원](#)
- [음성 및 통합 커뮤니케이션 제품 지원](#)
- [Cisco IP 텔레포니 문제 해결](#)
- [Technical Support - Cisco Systems](#)