

# OnRamp faxing de T.37

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## [Introdução](#)

[Esta seção do documento Fax over IP T.37 Store and Forward Fax descreve o armazenamento e o encaminhamento OnRamp de fax.](#) OnRamp T.37 é o processo de aceitar uma chamada de fax, codificar esse fax em um formato Tagged Image File Format (TIFF) e de enviar esse arquivo TIFF para um servidor de e-mail como um anexo.

Este documento contém a configuração exigida para obter a característica operacional. A seção da [pesquisa de defeitos](#) vai sobre os **comandos debug** úteis e como interpretar seu significado. A topologia usada é mostrada na seção do [diagrama da rede](#).

## [Pré-requisitos](#)

### [Requisitos](#)

As exigências específicas para este documento são especificadas na seção principal, [fax de T.37 do FAX over IP store and forward \(guarda e passa adiante\)](#).

### [Componentes Utilizados](#)

Este documento não se restringe a versões de software e hardware específicas.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de

laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

## [Convenções](#)

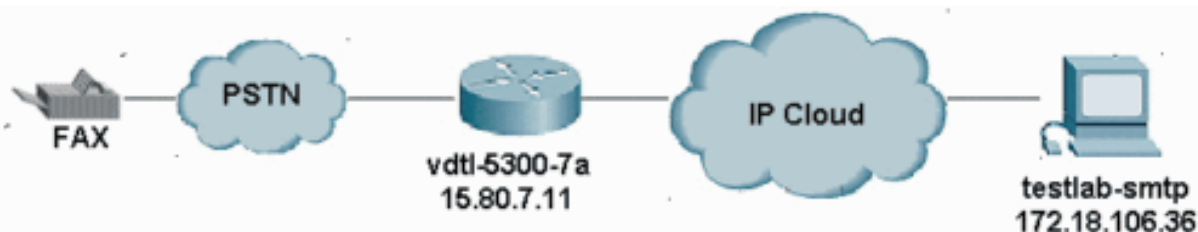
Para obter mais informações sobre convenções de documento, consulte as [Convenções de dicas técnicas Cisco](#).

## [Configuração](#)

Nas seções abaixo, os parâmetros da configuração de software de Cisco IOS® relevantes à configuração do fax do OnRamp são explicados primeiramente, e a configuração 5300 é indicada então com as notas mais adicionais que esclarecem as funções de comandos importantes. Alguns parâmetros da configuração opcional podem ser encontrados na seção que segue a configuração 5300.

## [Diagrama de Rede](#)

Este documento utiliza a instalação de rede mostrada no diagrama abaixo.



## [Parâmetros de configuração](#)

Parâmetros imperativos:	
<a href="#">fax-correio do tipo de interface do fax</a>	Permite a funcionalidade de T.37 para o gateway. Exige uma repartição nos 5300, mas não os 5350 ou os 5400.
<a href="#">servidor de envio mta</a>	Este é o hostname ou o endereço IP de Um ou Mais Servidores Cisco ICM NT do server do Simple Mail Transfer Protocol (SMTP) o roteador está indo enviar completamente o email do OnRamp. Sem esta configuração, o roteador não sabe onde enviar o email do OnRamp. Veja que <a href="#">nenhuma</a> seção <a href="#">configurada server</a> para debuga e mensagens do

	console sem o server configurado.
<a href="#">o mta envia o postmaster</a>	Este endereço é usado se o <b>mta enviado correio-das</b> opções não avalia nem não é configurado. É colocado no email do OnRamp do campo. Isto é opcional se o <b>mta envia correio-do username</b> e do <b>mta envia correio-do hostname</b> esta presente. Clique <a href="#">aqui</a> para <b>debugam o mspi</b> para uma chamada falha.
<a href="#">Domain Name IP</a>	Usado para identificar o remetente do email no mensagem HELO com hostname.domain-name. O roteador deve ser recarregado depois que este comando é configurado.
<a href="#">onramp flash:app libretto onramp.2 .0.1.1.tcl da Voz do aplicativo do atendimento</a>	Define um nome global para o aplicativo (onramp, neste caso) e seu lugar (no flash do roteador, neste caso).
<a href="#">onramp do aplicativo dos potenciômetros da voz do dial peer 8913180</a>	Chama o onramp do aplicativo quando este dial-peer é combinado.
<a href="#">fax on vfc onramp app do aplicativo da voz do dial peer 1 MMoIP de partida</a>	Aplicativo ser chamado quando este par do email multimídia sobre IP (MMoIP) for combinado. PRE-empacotado no Cisco IOS Software. <b>Sumário</b> direto visível da <b>Voz do aplicativo do atendimento da mostra</b> .
Parâmetros opcionais:	
<a href="#">o mta envia correio-do hostname</a>	Este é o hostname a ser usado no do campo no email do OnRamp. Imperativo se o <b>comando mta send postmaster</b> não está atual. Deve ser configurado se o <b>mta envia correio-do username</b> é usado.
<a href="#">o mta envia correio-do username</a>	Este é o autor a ser usado no do campo no email do

	<p>OnRamp. Usado conjuntamente com o <b>mta envie correio-do hostname</b> para obter inteiro do campo - isto é, <code>username@hostname</code>. Imperativo se o comando <b>mta send postmaster</b> não está atual. Deve ser configurado se o <b>mta envia correio-do hostname</b> é usado.</p>
<a href="#">o mta envia o assunto</a>	<p>Sequência de caracteres de texto a ser usada no <b>campo de assunto</b> no email do OnRamp.</p>
<b>o mta envia with-subject</b>	<ul style="list-style-type: none"> <li>• Adiciona o número do chamador com palavra-chave <b>\$s\$</b>.</li> <li>• Adiciona o número da parte chamada com palavra-chave <b>\$d\$</b>.</li> <li>• Adiciona a chamada e o número da parte chamada com palavra-chave <b>ambos</b>.</li> </ul> <p>Para debugar o indicador, clicam <a href="#">aqui</a>.</p>
<a href="#">o mta envia retornar-recibo-a</a>	<p>As palavras-chaves são <b>username</b> e <b>hostname</b>. Junto formam disposição-notificação-a: <code>username@hostname</code>.</p>
<a href="#">mdn do número MMoIP da voz do dial peer</a>	<p>Pede que um email enviado com as solicitações de peer deste MMoIP uma notificação de disposição de mensagem (MDN) esteja enviado ao desitnation definted pelo comando <b>mta send return-receipt-to</b>.</p>
<i>número MMoIP</i> <a href="#">dsn da voz do dial peer</a> <a href="#">{atraso   sucesso   falha}</a>	<p>Pede que uma observação do estado da entrega (DSN) esteja enviada ao destino definido pelo comando <b>mta send mail-from</b></p>

```

vdtl-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 vdtl-
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 vdtl-5300-7a#

```

## Configuração opcional

Estão aqui alguns parâmetros da configuração opcional. O primeiro exemplo mostra-lhe como configurar contas de email múltiplas usando endereços email tradicionais, e o segundo exemplo mostra-lhe como configurar contas de email múltiplas usando números da parte chamada para endereços email.

### Exemplo 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- </pre>	<p>Nesta configuração, o PRI tem dois números do Direct Inward Dialing (FEZ): 891-3144 e 891-3145. Segundo que número é discado, um email é enviado a andy@testlab-t37.com ou a bobby@testlab-t37.com.</p>
--	--

<pre> 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>	
--	--

### Exemplo 2:

<pre> ! dial-peer voice 1 mmoip application fax_on_vfc_onram p_app out-bound destination- pattern 8913144 information-type fax session target mailto:\$d\$@testl ab-t37.com ! </pre>	<p>Com esta configuração, o Dialed Number Identification Service (DNIS) (número da parte chamada) é introduzido no RCPT A: Comando S TP. Isto permite que os clientes deem cada usuário que a FEZ para aplicativos OnRamps. Adicionam simplesmente um pseudônimo no servidor de e-mail. 12 de março 15:42:12.947: (C) S: RCPT TO:&lt;FAX=8913144@testlab-t37.com&gt;</p>
--	--

**Nota:** Certifique-se que as alias de e-mail são FAX=8913144@domain.com em vez de 8913144@domain.com ou o email não estará entregue corretamente.

## Troubleshooting

### Falhado debuga

**Nota:** As alterações de configuração são notadas acima do debugam.

```

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 !

```

**Nota:** O comando `mta send mail-from username` é omitido da configuração, como é o comando `mta send postmaster`.

```

vdt1-5300-7a#
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#
```

O mesmo problema pode ser considerado que um pouco de mais claro com isto debugar:

```
vdtl-5300-7a# debug mta send all Mar 5 16:48:46.420: esmtp_client_engine_open: from=FAX=@,
to=andy@testlab-t37.com Mar 5 16:48:46.420: esmtp_client_engine_add_headers: from_comment=Fax
Mar 5 16:48:46.792: esmtp_client_work: socket 0 attempting to connect to IP address
172.18.106.36 Mar 5 16:48:46.792: esmtp_client_work: socket 0 readable for first time Mar 5
16:48:46.792: esmtp_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-VERFY 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:<FAX=@> !--- 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: esmtp_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: esmtp_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: esmtp_client_work: Freeing ctx=0x62616C4C Mar 5 16:49:15.208: esmtp_client:
returned from work, context freed
```

## Nenhum server configurado

```
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#
```

## O server configurado mas nenhuma rota IP ao server existe

```
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#
```

**Nota:** O roteador não está enviando um nome de domínio totalmente qualificado (FQDN) ao Ms Exchange Server e não faz como a sintaxe. Isto é porque o roteador exige um reload após ter adicionado “o domínio do Domain Name IP”

```
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:
esmtplib_client_engine_open: from=testing@vdtl-5300-7a.testlab-t37.com, to=andy@testlab-t37.com Mar
28 09:55:17.940: esmtplib_client_engine_add_headers: from_comment=mspi Test User Mar 28
09:55:18.072: esmtplib_client_work: socket 0 attempting to connect to IP address 172.18.106.36 Mar
28 09:55:18.072: esmtplib_client_work: socket 0 readable for first time Mar 28 09:55:18.072:
esmtplib_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: esmtplib_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:
esmtplib_client_work: error in response to HELO Mar 28 09:55:18.984: esmtplib_client_work: ERROR,
socket=0 Mar 28 09:55:18.984: esmtplib_client_work: Freeing ctx=0x62661F18 Mar 28 09:55:18.988:
esmtplib_client: returned from work, context freed vdtl-5300-7a#
```

## [O funcionamento debuga](#)

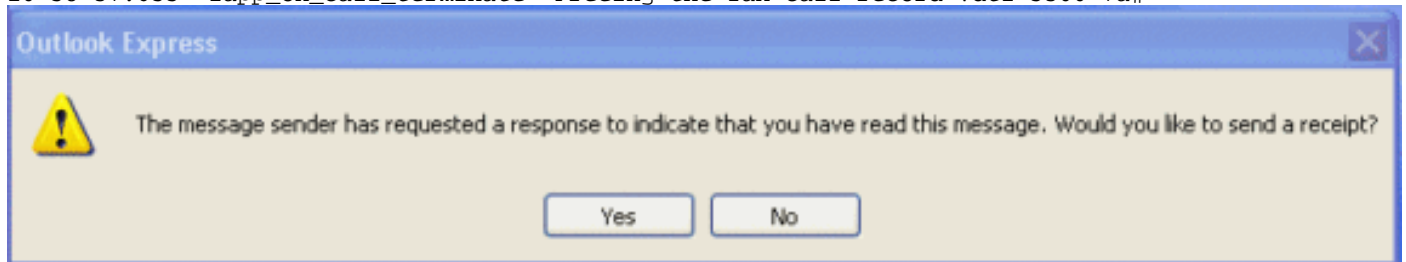
Estes comandos debug são usados para o lado S TP do OnRamp:

```
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 FMSP... 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 FMSP are conferenced Mar 18 10:57:51.003:
lapp_on_conference_created: Wait for FMSP call detail event Mar 18 10:57:51.003:
lapp_on_change_state: old state(1) new state(2) !--- VTSP_FMOSP_CONFERENCING to FMSP_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_FMSP_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 FMSP Mar 18
10:57:59.139: lapp_on_setup_mspi: Prep MSPI ccCallSetupRequest... Mar 18 10:57:59.139:
lapp_on_setup_mspi: Envelope from: FAX=8915510@vdtl-5300-7a.testlab-t37.com Mar 18 10:57:59.139:
lapp_on_setup_mspi: Envelope to: FAX=8913144@testlab-t37.com Mar 18 10:57:59.139:
lapp_on_setup_mspi: rfc822_to_comment: 8913144 Mar 18 10:57:59.139: lapp_on_setup_mspi: Faxmail
```



**subject: Fax from On-Ramp GW vdl-t-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 FMSP and DMSP 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) **!--- FMSP\_CALL\_DETAIL to FMSP\_DMSP\_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 FMSP and the DMSP are conferenced Mar 18 10:57:59.139: lapp\_on\_conference\_created: Sending CC\_EV\_TO\_FMSP\_ON\_RECEIVE\_ENABLE to FMSP Mar 18 10:57:59.139: lapp\_on\_change\_state: old state(3) new state(4) **!--- FMSP\_DMSP\_CONFERENCING to FMSP\_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 DMSP 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\_FMSP\_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 FMSP** 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\_DMSP\_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 DMSP 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\_FMSP\_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 fmosp** 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 vdtl-5300-7a#



O cliente que recebe o email vê um indicador similar a esse acima de ao abrir um email com um grupo MDN. A resposta que o utilizador recebe é sob a forma do email enviado ao usuário com texto de mensagem que lê, "isto é um recibo para o email que você enviou a "8913144" <Fax=8913144@testlab-t37.com> em 3/18/2002 de 10:58AM. Este recibo verifica que a mensagem esteve indicada no computador do receptor em 3/18/2002 de 11:07 AM."

vdtl-5300-7a# **debug mta send all** All email send debugging is on vdtl-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@vdtl-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 vdtl-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-VERFY 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:<FAX=8915510@vdtl-5300-7a.testlab-t37.com> RET=HDRS Mar 18  
14:50:49.666: (C)R: 250 2.1.0 FAX=8915510@vdtl-5300-7a.testlab-t37.com...Sender OK Mar 18  
14:50:49.666: (C)S: RCPT TO:<FAX=8913144@testlab-t37.com> NOTIFY=SUCCESS,FAILURE  
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  
<CRLF><CRLF> Mar 18 14:50:50.698: (C)S: Received: by vdtl-5300-7a.testlab-t37.com for  
<FAX=8913144@testlab-t37.com> (with Cisco NetWorks); Mon, 18 Mar 2002 14:50:50 -0500 Mar 18  
14:50:50.698: (C)S: To: "8913144" <FAX=8913144@testlab-t37.com> Mar 18 14:50:50.698: (C)S:  
Message-ID: <008C2002145050698@vdtl-5300-7a.testlab-t37.com> Mar 18 14:50:50.702: (C)S: Date:  
Mon, 18 Mar 2002 14:50:50 -0500 Mar 18 14:50:50.702: (C)S: Subject: Fax from On-Ramp GW vdtl-  
5300-7a[DNIS=8913144] [ANI=8915510] Mar 18 14:50:50.702: (C)S: X-Mailer: IOS (tm) 5300 Software  
(C5300-IS-M) Mar 18 14:50:50.702: (C)S: Disposition-Notification-To: admin@testlab-t37.com Mar  
18 14:50:50.702: (C)S: MIME-Version: 1.0 Mar 18 14:50:50.702: (C)S: Content-Type: multipart/fax-  
message; Mar 18 14:50:50.702: (C)S: boundary="yradnuoB=\_008B2002145048474.vdtl-5300-7aatestlab-  
t37.com" Mar 18 14:50:50.702: (C)S: From: "Fax " <FAX=8915510@vdtl-5300-7a.testlab-t37.com> Mar  
18 14:50:50.702: (C)S: X-Account-Id: 0 Mar 18 14:51:05.702: (C)S: --  
yradnuoB=\_008B2002145048474.vdtl-5300-7aatestlab-t37.com Mar 18 14:51:05.702: (C)S: Content-ID:  
<008D2002145105702@vdtl-5300-7a.testlab-t37.com> Mar 18 14:51:05.702: (C)S: Content-Type:  
image/tiff; application=faxbw Mar 18 14:51:05.702: (C)S: Content-Transfer-Encoding: base64 Mar  
18 14:51:05.706: esmtp\_client\_work: writing lingering data for socket 0 Mar 18 14:51:05.714:  
esmtp\_client\_work: writing lingering data for socket 0 Mar 18 14:51:14.726: esmtp\_client\_work:  
writing lingering data for socket 0 Mar 18 14:51:14.734: esmtp\_client\_work: writing lingering  
data for socket 0 Mar 18 14:51:14.738: (C)S: --yradnuoB=\_008B2002145048474.vdtl-5300-7aatestlab-  
t37.com-- Mar 18 14:51:14.738: esmtp\_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:  
esmtp\_client\_work: Freeing ctx=0x6266946C Mar 18 14:51:15.406: esmtp\_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,  
srcid=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, srcid=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, srcid=227, dstcid=225  
Mar 18 14:53:41.022: docmsp\_bdrop cfid=157, srcid=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#

**Nota: O comando debug mmoip send email address** não indica qualquer coisa à tela própria, mas é muito útil. Usa o roteador como um cliente de SMTP para enviar um email ao endereço dado no comando debug. O email tem o assunto definido na configuração e é do "do usuário de teste mspi". Contém um anexo de texto com a linha, "isto é um mensagem de Email do teste enviado através do Cisco Powered Libretto Faxmail."

Estes são debugam para o lado do fax do OnRamp:

vdtl-5300-7a# debug fmsp send t30 FMSM send t30 debugging is on vdtl-5300-7a# Mar 19  
14:50:04.604: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:04.604: received flag of

modulation: 0 Mar 19 14:50:04.628: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 19 14:50:06.252: msg dump:FF C0 C2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 1E 86 62 Mar 19 14:50:06.252: Mar 19 14:50:06.252: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:06.252: **received: TSI remote id string: Fax** Mar 19 14:50:06.672: msg dump:FF C8 C1 0 47 E Mar 19 14:50:06.672: Mar 19 14:50:06.824: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:06.824: in response receive WAIT FOR CD Mar 19 14:50:11.632: t30 call4Leg=311, state=1, substate=6 Mar 19 14:50:11.632: received flag of modulation: 8 Mar 19 14:50:19.304: t30 call4Leg=311, state=1, substate=6 Mar 19 14:50:19.304: received flag of modulation: 0 Mar 19 14:50:20.364: msg dump:FF C8 F2 Mar 19 14:50:20.364: Mar 19 14:50:22.324: t30 call4Leg=311, state=1, substate=6 Mar 19 14:50:22.324: received flag of modulation: 8 Mar 19 14:50:31.643: t30 call4Leg=311, state=1, substate=6 Mar 19 14:50:31.643: received flag of modulation: 0 Mar 19 14:50:32.683: msg dump:FF C8 F4 Mar 19 14:50:32.683: Mar 19 14:50:33.155: t30 call4Leg=311, state=0, substate=6 Mar 19 14:50:33.155: fax session aborted by application Mar 19 14:50:37.295: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds vdt1-5300-7a# vdt1-5300-7a#**debug fmsp receive t30** FMSF receive t30 debugging is on vdt1-5300-7a# Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=3 *!--- state=PHASE\_B\_RECEIVE substate=TX\_DIS\_DTC\_BLOCK* Mar 19 14:46:26.536: **CSI\_PACKET(8913180)** *!--- The CSI option, which shows that the called number is 8913180, is !--- controlled by the fax receive called-subscriber configuration.* Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=3 Mar 19 14:46:26.536: **DIS\_PACKET(speed: 5, resolution: 1, encoding: 1)** Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=4 *!--- Moved to substate RX\_DCS\_DTC\_BLOCK.* Mar 19 14:46:26.536: fax2\_response\_receive: PROCESSING Mar 19 14:46:29.452: t30 call4Leg=307, state=1, substate=4 Mar 19 14:46:29.452: fax2\_response\_receive: PROCESSING Mar 19 14:46:29.476: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 19 14:46:30.736: t30 call4Leg=307, state=1, substate=3 Mar 19 14:46:30.736: **CSI\_PACKET(8913180)** Mar 19 14:46:30.736: t30 call4Leg=307, state=1, substate=3 Mar 19 14:46:30.736: **DIS\_PACKET(speed: 5, resolution: 1, encoding: 1)** *!--- speed=14400, resolution=, encoding=modified read* Mar 19 14:46:30.736: t30 call4Leg=307, state=1, substate=4 Mar 19 14:46:30.736: fax2\_response\_receive: PROCESSING 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 14:46:31.100: msg dump:FF C0 C2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 1E 86 62 Mar 19 14:46:31.100: Mar 19 14:46:31.100: t30 call4Leg=307, state=1, substate=4 Mar 19 14:46:31.100: **received: TSI remote id string: Fax** 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 vdtl-5300-7a# vdtl-5300-
7a# debug fax relay t30 called-number 8913144 Debugging fax relay t30 to 8913144 vdtl-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

```

Para mais informação, refira o [guia de Troubleshooting do fax relay](#).

## comandos show

```

vdtl-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:50942/0rx: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

## [Informações Relacionadas](#)

- [OffRamp faxing de T.37](#)
- [Fax de T.37 do FAX over IP store and forward \(guarda e passa adiante\)](#)
- [Suporte à Tecnologia de Voz](#)
- [Suporte ao Produto de Voz e Comunicações Unificadas](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte Técnico - Cisco Systems](#)