Envío de faxes OnRamp de T.37

Contenido

Introducción

Esta sección del documento principal de Fax de Almacenamiento y Reenvío Fax sobre IP T.37 describe cómo enviar fax de almacenamiento y reenvío OnRamp. OnRamp T.37 es el proceso de aceptar una llamada de fax, codificar ese fax en un Formato Tagged Image File (TIFF) y enviar ese TIFF a un servidor de correo electrónico como datos adjuntos.

Este documento contiene la configuración requerida para conseguir la característica operativa. La sección del Troubleshooting pasa los **comandos debug** útiles y cómo interpretar su significado. La topología usada se muestra en la sección del diagrama de la red.

prerrequisitos

Requisitos

Los requisitos específicos para este documento se especifican en la sección principal, almacenar y reenviar fax de T.37 del FAX over IP.

Componentes Utilizados

Este documento no tiene restricciones específicas en cuanto a versiones de software y de hardware.

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

Convenciones

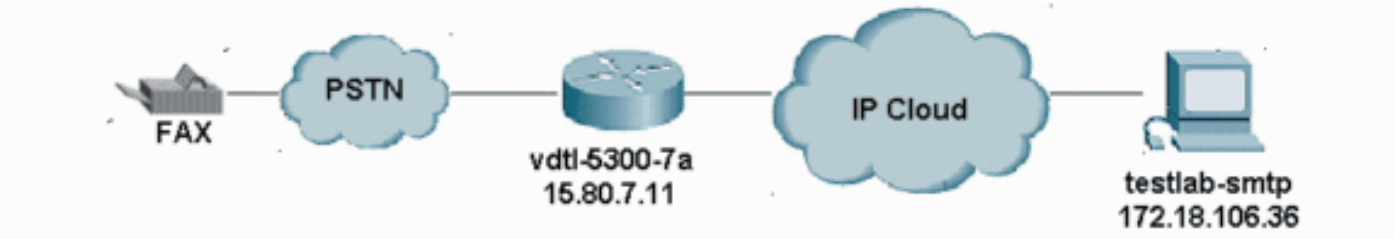
Para obtener más información sobre las convenciones del documento, consulte las Convenciones de Consejos Técnicos de Cisco.

Configuración

En las secciones abajo, primero los parámetros de la configuración del software de Cisco IOS® relevantes a la configuración del fax del onramp se explican, y entonces la configuración 5300 se visualiza con otras notas que aclaran las funciones de los comandos importantes. Algunos parámetros de la configuración optativa se pueden encontrar en la sección que sigue la configuración 5300.

Diagrama de la red

Este documento utiliza la instalación de red que se muestra en el siguiente diagrama.



Parámetros de la configuración

Parámetros obligatorios:	
fax-correo del tipo de interfaz del fax	Funciones de T.37 de los permisos para el gateway. Requiere una reinicialización en los 5300, pero no los 5350 o los 5400.
MTA send server	Éste es el nombre de host o la dirección IP del servidor del Simple Mail Transfer Protocol (SMTP) el router va a enviar el correo electrónico del onramp a través. Sin esta configuración, el router no sabe dónde enviar el correo electrónico del onramp. No vea la ninguna sección configurada servidor para

	los debugs y los mensajes de la consola sin el servidor configurado.
el MTA envía el postmaster	Se utiliza este direccionamiento si correo-**de enviado MTA** options no evalúa ni se configura. Se coloca en el correo electrónico del onramp del campo. Esto es opcional si el **MTA envía a correo-de username** y el **MTA envía a correo-de hostname** está presente. Haga clic aquí para el **mspi del debug** para una llamada fallida.
Domain Name del IP	Utilizado para identificar el remitente del correo electrónico en el mensaje HELO con hostname.domain-name. El router debe ser recargado después de que se configure este comando.
onramp flash:app_libretto_onramp.2.0.1.1.tcl de la Voz de la aplicación de la llamada	Define un nombre global para la aplicación (onramp, en este caso) y su ubicación (en el flash del router, en este caso).
pots application onramp de la voz de dial-peer 8913180	Llama la aplicación onramp cuando se corresponde con este dial-peer.
fax_on_vfc_onramp_app de la aplicación mmoip de la voz de dial-peer 1 el extranjero	Aplicación que se llamará cuando corresponden con a este par del correo multimedia sobre IP (mmoip). PRE-unido en Cisco IOS Software. **Resumen** directo visible de la **Voz de la aplicación de la llamada de la demostración**.
Parámetros optativos:	
el MTA envía a correo-de hostname	Éste es el nombre de host que se utilizará en del campo en el correo electrónico del onramp. Obligatorio si el **comando mta send postmaster** no está presente. Debe ser configurado si se utiliza el

	MTA envía a correo-de username.
el MTA envía a correo-de username	Éste es el terminal original que se utilizará en del campo en el correo electrónico del onramp. Utilizado conjuntamente con el **MTA envíe a correo-de hostname** para conseguir entero del campo - es decir, username@hostname. Obligatorio si el **comando mta send postmaster** no está presente. Debe ser configurado si se utiliza el **MTA envía a correo-de hostname**.
el MTA envía el tema	Cadena de texto que se utilizará en el **campo Subject** en el correo electrónico del onramp.
el MTA envía con tema	• Añade el número de la parte llamadora al final del fichero con la palabra clave **s**. • Añade el número de la parte llamada al final del fichero con la palabra clave **d**. • Añade la llamada y el número de la parte llamada al final del fichero con la palabra clave **ambas**. Para la visualización del debug, haga clic aquí.
el MTA envía vuelta-recibo-a	Las palabras claves son **nombre de usuario** y **nombre de host**. Junto forman disposición-notificación-a: username@hostname.
mdn del **mmoip del** *número de la* **voz de dial-peer**	Pide que un correo electrónico enviado con este las solicitudes de peer del mmoip una notificación de disposición de mensajes (MDN) esté enviado al desitnation definted por el

	comando mta send return-receipt-to.
mmoip dsn {retardo del *número de la* **voz de dial-peer** | éxito | error}	Pide que un aviso del estatus de la salida (DSN) esté enviado al destino definido por el **comando mta send mail-from**

Configuración OnRamp

```
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 vdlt-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
$s$ 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#
```

Configuración optativa

Aquí están algunos parámetros de la configuración optativa. El primer ejemplo le muestra cómo configurar las cuentas de correo electrónico múltiples usando las direcciones de correo electrónico tradicionales, y el segundo ejemplo le muestra cómo configurar las cuentas de correo electrónico múltiples usando los números de la parte llamada para las direcciones de correo electrónico.

Ejemplo 1:

`! dial-peer voice 1 mmoip application fax_on_vfc_onramp_app out-bound`	En esta configuración, el PRI tiene dos números del Direct Inward Dialing (DID - Marcación de entrada directa): 891-3144 y 891-3145. Dependiendo se marca de qué número, un correo

destination-pattern 8913144 information-type fax session target mailto:andy@testlab-t37.com ! dial-peer voice 2 mmoip application fax_on_vfc_onramp_app out-bound destination-pattern 8913145 information-type fax session target mailto:bobby@testlab-t37.com ! dial-peer voice 891314 pots application onramp incoming called-number 891314[4-5] direct-inward-dial port 0:D !	electrónico se envía a andy@testlab-t37.com o a bobby@testlab-t37.com.

Ejemplo 2:

! 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 !	Con esta configuración, el Dialed Number Identification Service (DNIS) (número de la parte llamada) se inserta en el RCPT A: Comando S TP. Esto permite que los clientes den a cada usuario que a HIZO para las aplicaciones del onramp. Agregan simplemente un alias en el servidor de correo electrónico. 12 de marzo 15:42:12.947: (C) S: RCPT TO:<FAX=8913144@testlab-t37.com>

Nota: Aseegurese el alias de correo electrónico es FAX=8913144@domain.com en vez de 8913144@domain.com o el correo electrónico no será entregado correctamente.

Troubleshooting

Debugs fallados

Nota: Los cambios de configuración se observan sobre los debugs.

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: Omiten al **comando mta send mail-from username de la** configuración, al igual que el **comando mta send postmaster**.

vdtl-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#

El mismo problema puede estar un poco más claro considerado con este debug:

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-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:<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 ocurred 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

Ningún servidor configurado

fax receive called-subscriber 8913180
fax interface-type fax-mail
mta send subject Fax from On-Ramp GW vdlt-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 $s$
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#
```

El servidor configurado pero ninguna ruta de IP al servidor 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: El router no está enviando un nombre de dominio completo (FQDN) al Ms Exchange Server y no hace como el sintaxis. Esto es porque el router requiere una recarga después de agregar “el *dominio del* Domain Name del 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:
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#
```

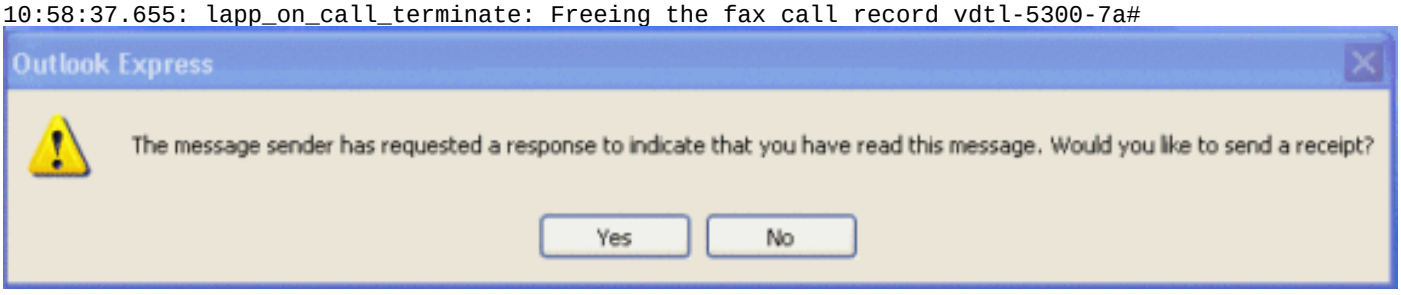
Debugs de trabajo

Utilizan a estos **comandos debug** para el lado S TP del 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_fmsp: Begin conferencing VTSP and FMSP... Mar 18 10:57:50.999: lapp_on_change_state: old state(0) new state(1) *!--- HANDOFF to VTSP_FMSP_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_FMSP_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 vdlt-5300-7a [DNIS=8913144][ANI=8915510]** Mar 18 10:57:59.139: lapp_on_setup_mspi: **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_mspi: Originator's TSI = rfc822_from_comment = Fax Mar 18 10:57:59.139: lapp_on_setup_mspi: Auth/Account ID = 0 Mar 18 10:57:59.139: lapp_on_setup_mspi: Do ccCallSetupRequest to MSPI Mar 18 10:57:59.139: lapp_on_conference_fmsp_dmsp: Starting conference with FMSP and DMSP Mar 18 10:57:59.139: lapp_on_conference_fmsp_dmsp: **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 fmsp** 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 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 vdtl-5300-7a#
```



El cliente que recibe el correo electrónico ve una ventana similar a la que está sobre al abrir un correo electrónico con un conjunto MDN. La respuesta que el solicitante recibe está bajo la forma de correo electrónico enviado al usuario con el mensaje de texto que lee, “esto es un recibo para el correo electrónico que usted envió hasta el "8913144" <Fax=8913144@testlab-t37.com> en 3/18/2002 10:58AM. Este recibo verifica que el mensaje se haya visualizado en el ordenador del beneficiario en 3/18/2002 11:07.”

```
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-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:<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 vdlt-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-5300-7atestlab-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-5300-7atestlab-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-5300-7atestlab-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, 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#
```

Nota: El comando debug mmoip send email address no visualiza cualquier cosa a la pantalla sí mismo, sino que es muy útil. Utiliza al router como cliente SMTP para enviar un correo electrónico al direccionamiento dado en el comando debug. El correo electrónico tiene el tema definido en la configuración y es de “usuario a prueba del mspi”. Contiene un texto adjunto con la línea, “esto es un correo electrónico de la prueba enviado vía el faxmail del Libretto desarrollado por Cisco.”

Éstos son debugs para el lado del fax del onramp:

```
vdtl-5300-7a# debug fmsp send t30 FMSP 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 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 aplication Mar 19 14:50:37.295: %ISDN-6-DISCONNECT:
Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds vdtl-5300-7a# vdtl-5300-
7a#debug fmsp receive t30 FMSP receive t30 debugging is on vdtl-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 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 acceptence 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 acceptence 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 aplication 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 más información, refiera a la guía del Troubleshooting de 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:50942/0 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
```

Información Relacionada

- Envío de faxes OffRamp de T.37
- Almacenar y reenviar fax de T.37 del FAX over IP
- Soporte de tecnología de voz
- Soporte de Productos de Voice and Unified Communications
- Troubleshooting de Cisco IP Telephony
- Soporte Técnico - Cisco Systems