

T.37上线管道电传

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简介

主要[FAX over IP T.37存储和发送传真](#)文档的此部分描述上线管道存储和转送传真。上线管道T.37是接受传真呼叫，编码该传真到标记镜像文件形式(TIFF)和发送该TIFF进程对电子邮件服务器作为附件。

本文包含要求的配置获得功能可操作。[Troubleshoot部分](#)在有用的调试指令去和如何解释他们的含义。使用的拓扑在[Network Diagram部分](#)显示。

先决条件

要求

本文的特定需求在主要部分指定，[FAX over IP T.37存储和发送传真](#)。

使用的组件

本文档不限于特定的软件和硬件版本。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

规则

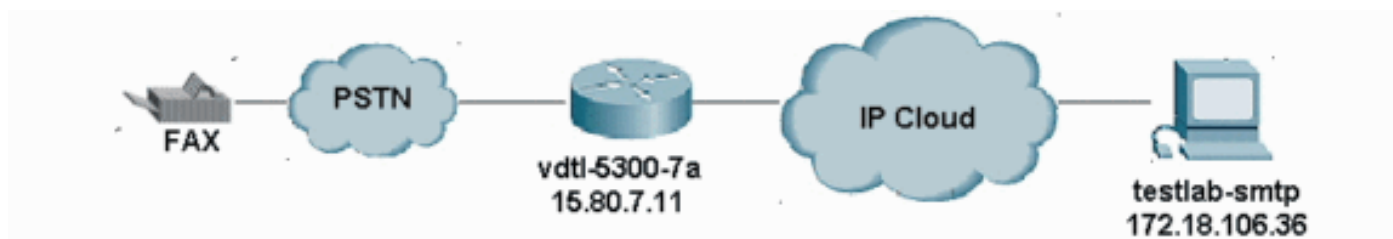
有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

配置

在下面的部分，Cisco IOS软件配置参数与上线管道传真配置有关首先解释，5300配置然后显示与澄清重要命令的功能的进一步笔记。一些可选配置参数可以在跟随5300配置的部分找到。

网络图

本文档使用下图所示的网络设置。



配置参数

必选参数：	
传真interface-type传真邮件	Enable (event)网关的 T.37功能。要求在5300的一辆重新启动，但是不是5350或者5400。
mta send server	这是主机名或简单邮件传输协议(SMTP)服务器的IP地址路由器通过发送上线管道电子邮件。没有此配置，路由器在哪里不知道发送上线管道电子邮件。请参阅 No server configured部分 关于调试和控制台信息，不用配置的服务器。
mta发送邮政局长	此地址，如果mta发送的发件人选项不评估也没有配置，使用。它在上线管道电子邮件From字段安置。如果mta发送发件人用户名和mta发送发件人主机名存在，这可选。为 失败呼叫的调试mspi 点击此处。
ip domain-name	用于识别在直升机消息的电子邮件发送方与hostname.domain NAME。路由器，在此命令配置后，必须重新加载。

呼叫应用程序语音上线管道 flash:app_libretto_onramp.2 .0.1.1.tcl	定义了一全局名称对于应用程序(上线管道，在这种情况下)和其位置(在路由器闪存，在这种情况下)。
dial-peer voice 8913180 pots应用程序上线管道	当此dial-peer匹配时，呼叫应用程序上线管道。
dial-peer voice 1 mmoip outbound应用程序 fax_on_vfc_onramp_app	应用程序呼叫，当此多媒体邮件IP (Mmoip)对等体匹配。预捆绑的在Cisco IOS软件方面。可视通过show call application voice summary。
可选参数：	
mta发送发件人主机名	这是用于在上线管道电子邮件的From字段的主机名。必须，如果mta send postmaster命令不存在。如果mta发送使用，必须配置发件人用户名。
mta发送发件人用户名	这是用于在上线管道电子邮件的From字段的创建人。即用于与mta发送发件人主机名一道获得整个From字段-， username@hostname。必须，如果mta send postmaster命令不存在。如果mta发送使用，必须配置发件人主机名。
mta发送主题	用于上线管道电子邮件的主题字段的文本字符串。
mta发送具有主题的	<ul style="list-style-type: none"> • 添附有关键字\$\$\$的主叫方编号。 • 添附有关键字\$d\$的被叫号码。 • 添附有关键字的呼叫和被叫号码两个。 对于调试 显示，请点击此处 。
mta发送回执至	关键字是用户名和主机名。同时他们形成disposition-notification-4 : username@hostname。
dial-peer voice 编号mmoip mdn	电子邮件通过此Mmoip对等体请求发送消息处理通知的请求(MDN)发送对desitnation definted由mta send return-receipt-to命令。
dial-peer voice 编号mmoip dsn {延迟 成功 失败}	传送状态公告的请求(DSN)发送对目的地由mta

上线管道配置

```

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#

```

可选配置

这是一些可选配置参数。第一示例显示您使用传统电子邮件地址，如何配置多个电子邮件帐户和第二示例显示您如何配置多个电子邮件帐户使用被叫号码电子邮件地址的。

示例 1：

<pre> ! dial- peer voice 1 mmoip applicat ion fax_on_v fc_onram p_app out- bound destinat ion- pattern </pre>	<p>在此配置中，PRI有两个直接拨入(DID)编号：891-3144和891-3145。根据哪个编号拨号，电子邮件被发送对andy@testlab-t37.com或对bobby@testlab-t37.com。</p>
-----------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------

<pre> 8913144 informat ion-type fax session target mailto:a ndy@test lab- t37.com ! dial- peer voice 2 mmpoip applicat ion fax_on_v fc_onram p_app out- bound destinat ion- pattern 8913145 informat ion-type fax session target mailto:b obby@tes tlab- t37.com ! dial- peer voice 891314 pots applicat ion onramp incoming called- number 891314[4 -5] direct- inward- dial port 0:D ! </pre>	
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

示例 2 :

!	使用此配置，拨号号码识别服务(DNIS) (被叫号)
---	----------------------------

dial-peer	
voice 1	
mhoip	
applicat	
ion	
fax_on_v	
fc_onram	
p_app	
out-bound	
destinat	码)插入到RCPT对：SMTP命令。这允许客户给
ion-	每个的用户上线管道应用程序的DID。他们添加
pattern	在电子邮件服务器的一别名。Mar 12
8913144	15:42:12.947 : (C) S : RCPT
informat	TO:<FAX=8913144@testlab-t37.com>
ion-type	
fax	
session	
target	
mailto:\$	
d@testl	
ab-	
t37.com	
!	

注意： 确保电子邮件别名是FAX=8913144@domain.com而不是8913144@domain.com否则电子邮件不会适当地传送。

故障排除

失败的调试

注意： 配置更改在调试上是要注意的。

```
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 !
```

注意： mta send mail-from username命令从配置省略，象mta send postmaster命令。

```
vdctl-5300-7a#
Mar 4 10:03:29.165: mspi_setup_req: for cid=0x27
Mar 4 10:03:29.165: envelope_from=FAX=@ !--- Note: This is not a valid email address (no
domain). Mar 4 10:03:29.165: envelope_to=andy@testlab-t37.com Mar 4 10:03:30.165:
mspi_chk_connect: cid=0x27, cnt=0, Mar 4 10:03:30.165: SMTP connected to the server ! !--- The
connection to the SMTP server is initiated. Mar 4 10:03:30.165: mspi_bridge: cid=0x27, dst
cid=0x28, Mar 4 10:03:56.985: mspi_xmit: cid=0x27, st=CONFERENCED, src_cid=0x28, buf cnt=0 Mar 4
10:03:56.985: %MSPI-4-MSPI_NO_SMTP_SEND: MSPI- Could not send data to the SMTP server, cid=39,
mspi_on_xmit, lost connection Mar 4 10:03:56.985: mspi_on_xmit: cid=0x27, lost connection Mar 4
10:03:56.985: disc text=no route to destination (3): SMTP client engine lost connection !--- The
statement "no route to destination" is a little misleading as a cause code. Mar 4 10:03:56.985:
mspi_xmit: cid=0x27, st=ABORTING, src_cid=0x28 Mar 4 10:03:56.985: discarding buffer !---
Several lines of mspi_xmit debugs that were identical to the lines above !--- and below this
note have been suppressed. Mar 4 10:03:56.989: mspi_xmit: cid=0x27, st=ABORTING, src_cid=0x28
Mar 4 10:03:56.993: discarding buffer Mar 4 10:03:56.993: %LAPP_ON_MSGS-6-
LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client did not connect or lost connection to remote server
Mar 4 10:03:56.993: mspi_bridge_drop: cid=0x27, dst cid=0x28, st=ABORTING, onramp Mar 4
10:03:56.993: mspi_disconnect: cid=0x27, st=DISCONNECTING, cause=no route to destination (3) Mar
```

```
4 10:03:56.993: mspi_on_call_hist: cid=0x27, cause=no route to destination (3): SMTP client engine lost connection Mar 4 10:03:56.993: disposing smtp ctx Mar 4 10:03:56.993: mspi_free_ccb: mmccb allocated=1, inserted=0 vdtl-5300-7a#
```

同一问题可以是被看到的清楚与此调试：

```
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
```

没有配置的服务器

```
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#
```

服务器配置，但是Ip route对服务器不存在

```
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#

注意：路由器不发送完全合格的域名(FQDN)到MS埃克斯钱吉塞尔韦尔，并且不类似语法。这是因为路由器在添加“ip domain-name域以后”要求重新加载

```
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 ESMTMP 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#
```

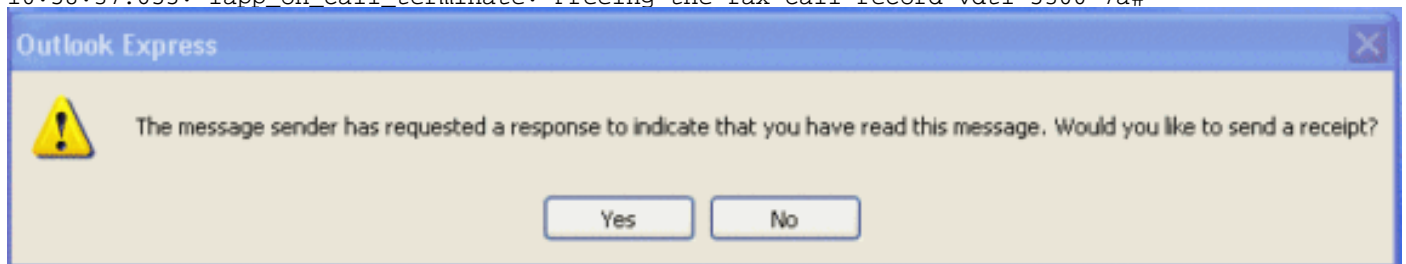
工作调试

这些调试指令使用上线管道SMTP侧：

```
vdtl-5300-7a# debug foip on-ramp FOIP On ramp faxmail debugging is on vdtl-5300-7a# Mar 18
10:57:50.995: lapp_on_application: Incoming Event: (15 = CC_EV_CALL_HANDOFF), CID(216), DISP(0)
Mar 18 10:57:50.995: lapp_on_call_handoff: Authentication enabled = FALSE Mar 18 10:57:50.995:
lapp_on_call_handoff: Authentication ID = 0 Mar 18 10:57:50.995: lapp_on_call_handoff:
Authentication ID source = IVR or unknown Mar 18 10:57:50.999: lapp_on_call_handoff:
Authentication status = SUCCESS Mar 18 10:57:50.999: lapp_on_call_handoff: Accounting enabled =
FALSE Mar 18 10:57:50.999: lapp_on_call_handoff: Accounting method list = fax Mar 18
10:57:50.999: lapp_on_call_handoff: Mailto Address = Mar 18 10:57:50.999:
lapp_on_conference_vtsp_fmosp: Begin conferencing VTSP and FMOSP... Mar 18 10:57:50.999:
lapp_on_change_state: old state(0) new state(1) !--- HANDOFF to VTSP_FMOSP_CONFERENCEING Mar 18
10:57:51.003: lapp_on_application: Incoming Event: (29 = CC_EV_CONF_CREATE_DONE), CID(216),
DISP(0) Mar 18 10:57:51.003: lapp_on_application: Current call state = 1 Mar 18 10:57:51.003:
lapp_on_conference_created: The VTSP and the FMOSP are conferenced Mar 18 10:57:51.003:
lapp_on_conference_created: Wait for FMOSP call detail event Mar 18 10:57:51.003:
lapp_on_change_state: old state(1) new state(2) !--- VTSP_FMOSP_CONFERENCEING to FMOSP_CALL_DETAIL
Mar 18 10:57:57.075: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 18
10:57:59.135: lapp_on_application: Incoming Event: (33 = CC_EV_FROM_FMOSP_ON_CALL_DETAIL),
CID(217), DISP(0) Mar 18 10:57:59.139: lapp_on_application: Current call state = 2 Mar 18
10:57:59.139: lapp_on_msp_event: Incoming call detail has arrived from the FMOSP Mar 18
10:57:59.139: lapp_on_setup_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 vdtl-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_fmosp_dmosp: Starting conference with FMOSP and DMOSP Mar 18
10:57:59.139: lapp_on_conference_fmosp_dmosp: tiff file created = 2002:03:18 10:57:59 Mar 18
10:57:59.139: lapp_on_change_state: old state(2) new state(3) !--- FMOSP_CALL_DETAIL to
FMOSP_DMOSP_CONFERENCEING Mar 18 10:57:59.139: lapp_on_application: Incoming Event: (29 =
CC_EV_CONF_CREATE_DONE), CID(217), DISP(0) Mar 18 10:57:59.139: lapp_on_application: Current
call state = 3 Mar 18 10:57:59.139: lapp_on_conference_created: The FMOSP and the DMOSP are
```


conferenced Mar 18 10:57:59.139: lapp_on_conference_created: Sending
CC_EV_TO_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#



接收电子邮件的客户端看到窗口类似于那个上面，当打开与MDN集时的一电子邮件。申请人收到的答复是以电子邮件的形式被发送对有读的文本的用户，“这是您发送到"8913144"
<Fax=8913144@testlab-t37.com>在3/18/2002 10:58AM的电子邮件的一收据。此收据验证消息在
3/18/2002上午11:07的收件人的计算机显示”。

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-5300-7atestlab-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 dmstp 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#

注意： debug mmoip send email address命令不显示什么对屏幕，但是非常有用的。它使用路由器作为SMTP客户端发送电子邮件到在debug命令给的地址。电子邮件有定义的主题在配置里并且是从“mspi测试用户”。它包含一个文本附件用线路，“这是通过思科传送的测验电子邮件消息供给歌剧脚本传真邮件动力”。

这些是上线管道传真侧的调试：

vdtl-5300-7a# **debug fmstp 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 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** F MSP 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 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 vdt1-5300-7a# vdt1-5300-
7a# debug fax relay t30 called-number 8913144 Debugging fax relay t30 to 8913144 vdt1-5300-7a#
Mar 19 14:40:19.134: 0:D:302 1205778176 fr-entered (10ms) Mar 19 14:40:22.498: 0:D:302
1205781540 fr-msg-tx CSI Mar 19 14:40:23.826: 0:D:302 1205782870 fr-msg-tx DIS Mar 19
14:40:25.070: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 19
14:40:26.146: 0:D:302 1205785190 fr-msg-det TSI Mar 19 14:40:27.026: 0:D:302 1205786070 fr-msg-
det DCS Mar 19 14:40:30.558: 0:D:302 1205789600 fr-msg-tx CFR Mar 19 14:40:40.766: 0:D:302
1205799810 fr-msg-det MPS Mar 19 14:40:41.266: 0:D:302 1205800310 fr-msg-tx MCF Mar 19
14:40:53.098: 0:D:302 1205812140 fr-msg-det EOP Mar 19 14:40:53.598: 0:D:302 1205812640 fr-msg-
tx MCF Mar 19 14:40:56.390: 0:D:302 1205815430 fr-msg-det DCN Mar 19 14:40:57.682: %ISDN-6-
DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds Mar 19
14:40:58.518: 0:D:302 1205817560 fr-end-dcn fr-msg-tx indicates T.30 messages that are
transmitted by the router fr-msg-det indicates T.30 messages that are received by the router
欲知更多信息，参考传真中继故障排除指南。
```

显示命令

```
vdt1-5300-7a# show call history fax brief <ID>: <start>hs.<index> +<connect> +<disc>
pid:<peer_id> <direction> <addr> dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <disc-
cause><text>) IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>
delay:<last>/<min>/<max>ms <codec> MODEMPASS <method> buf:<fills>/<drains> loss <overall%>
<multipkt>/<corrected> last <buf event time>s dur:<Min>/<Max>s FR <protocol> [int dlci cid]
vad:<y/n> dtmf:<y/n> seq:<y/n> <codec> (payload size) ATM <protocol> [int vpi/vci cid] vad:<y/n>
dtmf:<y/n> seq:<y/n> <codec> (payload size) Telephony <int>: tx:<tot>/<voice>/<fax>ms <codec>
noise:<lvl>dBm acom:<lvl>dBm Proxy <ip>:<audio udp>,<video udp>,<tcp0>,<tcp1>,<tcp2>,<tcp3>
endpt: <type>/<manf> bw: <req>/<act> codec: <audio>/<video> tx: <audio pkts>/<audio
bytes>,<video pkts>/<video bytes>,<t120 pkts>/<t120 bytes> rx: <audio pkts>/<audio bytes>,<video
pkts>/<video bytes>,<t120 pkts>/<t120 bytes> Telephony call-legs: 3 SIP call-legs: 0 H323 call-
legs: 0 Total call-legs: 5 1225 : 374672hs.31 +2 +1367 pid:8913180 Answer 8915510 dur 00:00:13
tx:7/124 rx:104/693 10 :1F (normal call clearing (16):normal, unspecified (31): User abort)
Telephony 0:D:61: tx:0/0/0ms 14400 noise:0dBm acom:0dBm 122B : 401714hs.32 +100 +2966 pid:1
Originate andy@testlab-t37.com dur 00:00:28 tx:50942/0 rx:0/0 10 :0 (normal call clearing (16):)
IP 172.18.106.36 AcceptedMime:0 DiscardedMime:0 1229 : 400917hs.33 +1 +4108 pid:8913180 Answer
8915510 dur 00:00:41 tx:11/164 rx:760/45251 10 :10 (normal call clearing (16):normal call
clearing (16): Normal conn) Telephony 0:D:64: tx:0/0/0ms 14400 noise:0dBm acom:0dBm 1230 :
439580hs.34 +100 +2971 pid:1 Originate andy@testlab-t37.com dur 00:00:28 tx:50942/0 rx:0/0 10 :0
(normal call clearing (16):) IP 172.18.106.36 AcceptedMime:0 DiscardedMime:0 122E : 438783hs.35
+1 +4109 pid:8913180 Answer 8915510 dur 00:00:41 tx:11/164 rx:761/45256 10 :10 (normal call
clearing (16):normal call clearing (16): Normal conn) Telephony 0:D:68: tx:0/0/0ms 14400
noise:0dBm acom:0dBm
```

相关信息

- [T.37离线管道电传](#)
- [FAX over IP T.37存储和发送传真](#)

- [语音技术支持](#)
- [语音和统一通信产品支持](#)
- [Cisco IP 电话故障排除](#)
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