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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

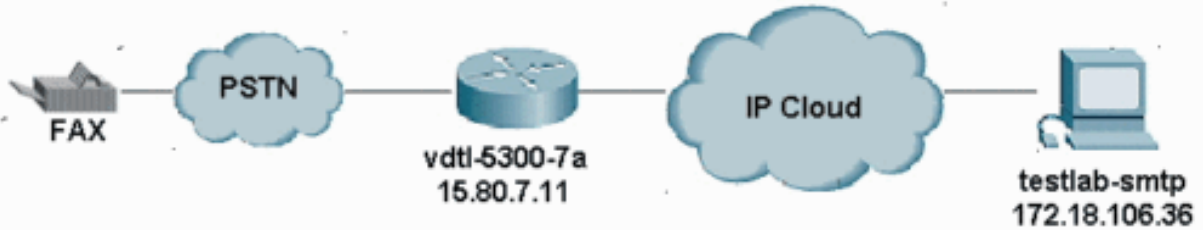
有关文档规则的详细信息，请参阅[Cisco 技术提示规则](#)。

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_onram p.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	当此dial-peer匹配时，呼叫应

pots应用程序上线管道	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。用于与mta发送发件人主机名一道获得整个From字段？即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 send mail-from命令定义

[上线管道配置](#)

```

vdt1-5300-7a# 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 12.2service timestamps debug datetime msec localtime service
timestamps log datetime msec localtime no service password-encryption!hostname vdt1-5300-
7a!!resource-pool disableclock timezone EST -5!ip subnet-zeroip 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 8913180fax 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-5300-7amta send with-subject bothmta 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.commta send mail-from username $$mta send return-receipt-to hostname testlab-t37.commta send return-receipt-to username adminmta receive maximum-recipients 0call-history-mib retain-timer 500!controller T1 0framing esfclock source line primarylinecode b8zspri-group timeslots 1-24!!!interface Ethernet0ip address 15.80.7.11 255.255.255.0!interface Serial0:23no ip addressisdn switch-type primary-5essisdn incoming-voice modemno cdp enable!ip classlessip route 0.0.0.0 0.0.0.0 15.80.7.1no ip http serverip 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 mmoipapplication fax_on_vfc_onramp_app out-bounddestination-pattern 8913144information-type faxsession 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. mdnsn successdsn failure! dial-peer voice 891314 potsapplication onrampincoming called-number 891314[4-5]direct-inward-dialport 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 0exec-timeout 0 0line aux 0line vty 0 4login!ntp clock-period 17179806ntp server 172.18.106.15endvdtl-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>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</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>
--	--

```
12.2service
e
timestamps
debug
datetime
msec
localtimes
ervice
timestamps
log
datetime
msec
localtimen
o service
password-
encryption
!hostname
vdtl-5300-
7a!!resour
ce-pool
disableclo
ck
timezone
EST -5!ip
subnet-
zeroip
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
configurat
ion due to
a known
bug !---
that has
since been
resolved.i
p 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
8913180fax
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-5300-7amta send
with-subject
bothmta
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
vdt1-5300-
7a.testlab
-
t37.commta
send mail-
from
username
$$mta
send
return-
receipt-to
hostname
testlab-
t37.commta
send
return-
receipt-to
username
adminmta
receive
maximum-
recipients
0call-
history-
mib
retain-
timer
500!contro
ller T1
0framing
esfclock
source
line
primarylin
ecode
b8zspri-
group
timeslots
1-
24!!!inter
face
Ethernet0i
p address
15.80.7.11
255.255.25
5.0!interf
ace
Serial0:23
no ip
addressid
n switch-
type
primary-
5essisdn
incoming-
voice
modemno
cdp
enable!ip
```

```
classlessi
p route
0.0.0.0
0.0.0.0
15.80.7.1n
o ip http
serverip
pim bidir-
enable!cal
l rsvp-
sync!call
applicatio
n voice
onramp
flash:app_
libretto_o
nramp.2.0.
1.1.tcl!--
- This
identifies
the call
applicatio
n to use.
It is
named
"onramp"
in !---
this
example.vo
ice-port
0:D !mgcp
profile
default!di
al-peer
voice 1
mmoipappli
cation
fax_on_vfc
_onramp_ap
p out-
bounddesti
nation-
pattern
8913144inf
ormation-
type
faxsession
target
mailto:$d$
@testlab-
t37.com
!!--- The
MMoIP
peers
contain
configurat
ion
specific
to the
called
party
number. !-
-- It
```


requests
MDN and
DSN. It
identifies
the
applicatio
n to use
for the
outbound
!--- call
leg and
specifies
the
address to
which the
email will
be sent.
mdndsn
successdsn
failure!
dial-peer
voice
891314
potsapplic
ation
onrampinco
ming
called-
number
891314[4-
5]direct-
inward-
dialport
0:D!---
*The pots
peers for
T.37 are
no
different
than for
voice
calls with
the
exception
of !---
using the
applicatio
n defined
above in
the call
applicatio
n global
configurat
ion !---
command.
The*
**direct-
inward-
dial**
command is
required
unless
using a

```
redialer.!\nline con\n0exec-\ntimeout 0\n0line aux\n0line vty\n0\n4login!ntp\nclock-\nperiod\n17179806nt\np server\n172.18.106\n.15endvdtl\n-5300-7a#
```

示例 2 :

```
vdtl-5300-\n7a# show\nrunning-\nconfig\nBuilding\nconfigurati\non...Curren\nt\nconfigurati\non : 2294\nbytes!!\nLast\nconfigurati\non change\nat 10:49:16\nEST Mon Mar\n18 2003!\nNVRAM\nconfig last\nupdated at\n11:00:42\nEST Mon Mar\n4\n2003!versio\nn\n12.2service\ntimestamps\ndebug\ndatetime\nmsec\nlocaltimese\nrvice\ntimestamps\nlog\ndatetime\nmsec\nlocaltimeno\nservice\npassword-\nencryption!\nhostname\nvdtl-5300-\n7a!!resourc\n e-pool\ndisablecloc\nk timezone\nEST -5!ip
```

使用此配置，拨号号码识别服务(DNIS) (被叫号码)插入到RCPT对：SMTP命令。这允许客户给每个的用户上线管道应用程序的DID。他们添加在电子邮件服务器的一别名。Mar 12 15:42:12.947 : (C) S : RCPT TO:<FAX=8913144@testlab-t37.com>

```
subnet-
zeroip
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
configurati
on 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
8913180fax
interface-
type fax-
mail! mta
send server
testlab-
smtp.testla
b-t37.com
port 25!---
The mta
send server
command
identifies
the email
server for
OnRamp
```

emails. !
mta send
subject Fax
from On-
Ramp GW
vdl1-5300-
7amta send
with-
subject
bothmta
send
postmaster
administrat
or@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
vdt1-5300-
7a.testlab-
t37.commta
send mail-
from
username
\$\$mta send
return-
receipt-to
hostname
testlab-
t37.commta
send
return-
receipt-to
username
adminmta
receive
maximum-
recipients
0call-
history-mib
retain-
timer
500!control
ler T1
0framing
esfclock
source line
primaryline
code

```
b8zspri-
group
timeslots
1-
24!!!interf
ace
Ethernet0ip
address
15.80.7.11
255.255.255
.0!interfac
e
Serial0:23n
o ip
addressisdn
switch-type
primary-
5essisdn
incoming-
voice
modemno cdp
enable!ip
classlessip
route
0.0.0.0
0.0.0.0
15.80.7.1no
ip http
serverip
pim bidir-
enable!call
rsvp-
sync!call
application
voice
onramp
flash:app_1
ibretto_onr
amp.2.0.1.1
.tcl!---
This
identifies
the call
application
to use. It
is named
"onramp" in
!--- this
example.voi
ce-port 0:D
!mgcp
profile
default!dia
l-peer
voice 1
mnoipapplic
ation
fax_on_vfc_
onramp_app
out-
bounddestin
ation-
pattern
```

8913144info
rmation-
type
faxsession
target
mailto:\$d\$@
testlab-
t37.com !!--
-- The
MMoIP peers
contain
configurati
on 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.
mdndsn
successdsn
failure!
dial-peer
voice
891314
potsapplica
tion
onrampincom
ing called-
number
891314[4-
5]direct-
inward-
dialport
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
configurati
on !---
command.
The direct-
inward-dial
command is
required
unless
using a
redialer.!!
ine con
0exec-
timeout 0
0line aux
0line vty 0
4login!ntp
clock-
period
17179806ntp
server
172.18.106.
15endvdtl-
5300-7a#
```

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-mailmta send server testlab-smtp.testlab-t37.com port
25mta send mail-from hostname whatever.commta receive maximum-recipients 0call-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。

```
vdtl-5300-7a#Mar 4 10:03:29.165: mspi_setup_req: for cid=0x27Mar 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.comMar 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=0Mar 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
connectionMar 4 10:03:56.985: mspi_on_xmit: cid=0x27, lost connectionMar 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=0x28Mar 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=0x28Mar 4 10:03:56.993:
discarding bufferMar 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 serverMar 4 10:03:56.993: mspi_bridge_drop:
cid=0x27, dst cid=0x28, st=ABORTING, onrampMar 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 connectionMar 4 10:03:56.993: disposing smtp ctxMar 4 10:03:56.993: mspi_free_ccb: mmccb allocated=1, inserted=0vdtl-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 allMar 5 16:48:46.420: esmtp_client_engine_open: from=FAX=@,
to=andy@testlab-t37.comMar 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 172.18.106.36Mar
5 16:48:46.792: esmtp_client_work: socket 0 readable for first timeMar 5 16:48:46.792:
esmtp_client_work: socket 0 readable for first timeMar 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.comMar 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-TURNMar 5 16:48:47.208: (C)R: 250-ATRN Mar 5
16:48:47.208: (C)R: 250-SIZEMar 5 16:48:47.208: (C)R: 250-ETRN Mar 5 16:48:47.212: (C)R: 250-
PIPELININGMar 5 16:48:47.212: (C)R: 250-DSNMar 5 16:48:47.212: (C)R: 250-ENHANCEDSTATUSCODESMar
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 occurred in the SMTP
exchange.Mar 5 16:48:47.708: esmtp_client_work: ERROR, socket=0Mar 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
connectionMar 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 serverMar 5 16:49:15.208: esmtp_client_work: Freeing
ctx=0x62616C4CMar 5 16:49:15.208: esmtp_client: returned from work, context freed
```

没有配置的服务器

```
fax receive called-subscriber 8913180fax interface-type fax-mailmta send subject Fax from On-
Ramp GW vdtl-5300-7a#mta send postmaster administrator@testlab-t37.commta send mail-from hostname
vdtl-5300-7a.testlab-t37.commta send mail-from username $$mta receive maximum-recipients 0vdtl-
5300-7a#Mar 4 10:46:48.703: mspi_setup_req: for cid=0x3FMar 4 10:46:48.703: %MSPI-1-
MSPI_BAD_CONFIG: MSPI-bad configuration, mspi_setup_req: NULL server ip addressMar 4
10:46:48.703: mspi_setup_req: NULL server addressMar 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
servervdtl-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 onvdtl-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=0x141Mar 20 09:35:29.306: envelope_from=FAX=8915510@vdtl-5300-
7a.testlab-t37.comMar 20 09:35:29.310: envelope_to=FAX=8913144@testlab-t37.comMar 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 failedMar
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
serverMar 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
failedMar 20 09:35:30.310: disposing smtp ctxMar 20 09:35:30.310: mspi_free_ccb: mmccb
allocated=1, inserted=0Mar 20 09:35:36.006: %ISDN-6-DISCONNECT: Interface Serial0:18
disconnected from 8915510, call lasted 14 secondsvdtl-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.comvdtl-5300-7a#Mar 28 09:55:16.768: %SYS-
```



```
5-CONFIG_I: Configured from console by consoleMar 28 09:55:17.936: esmtp_client_engine_open:
from=testing@vdtl-5300-7a.testlab-t37.com, to=andy@testlab-t37.comMar 28 09:55:17.940:
esmtp_client_engine_add_headers: from_comment=mspi Test UserMar 28 09:55:18.072:
esmtp_client_work: socket 0 attempting to connect to IP address 172.18.106.36Mar 28
09:55:18.072: esmtp_client_work: socket 0 readable for first timeMar 28 09:55:18.072:
esmtp_client_work: socket 0 readable for first timeMar 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 AddressMar 28
09:55:18.484: esmtp_client_work: EHLO failed; will try sending HELOMar 28 09:55:18.484: (C)S:
HELO vdtl-5300-7a.Mar 28 09:55:18.984: (C)R: 501 5.5.4 Invalid AddressMar 28 09:55:18.984:
esmtp_client_work: error in response to HELOMar 28 09:55:18.984: esmtp_client_work: ERROR,
socket=0Mar 28 09:55:18.984: esmtp_client_work: Freeing ctx=0x62661F18Mar 28 09:55:18.988:
esmtp_client: returned from work, context freedvdtl-5300-7a#
```

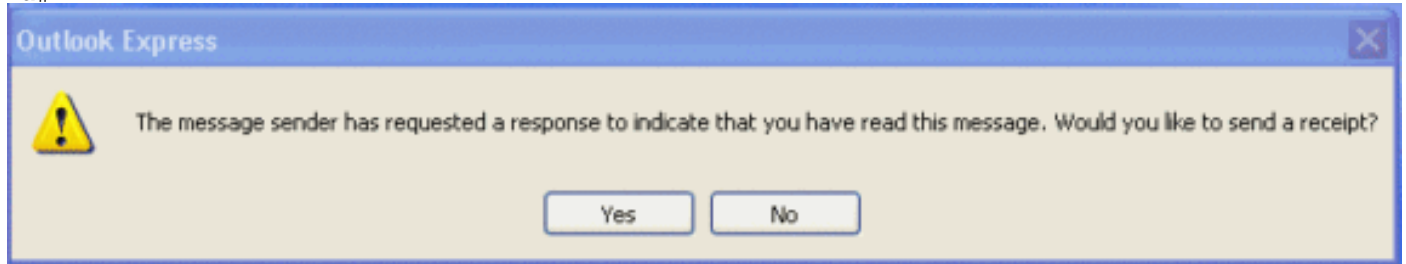
工作调试

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 onvdtl-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 = FALSEMar 18
10:57:50.995: lapp_on_call_handoff: Authentication ID = 0Mar 18 10:57:50.995:
lapp_on_call_handoff: Authentication ID source = IVR or unknownMar 18 10:57:50.999:
lapp_on_call_handoff: Authentication status = SUCCESSMar 18 10:57:50.999: lapp_on_call_handoff:
Accounting enabled = FALSEMar 18 10:57:50.999: lapp_on_call_handoff: Accounting method list =
faxMar 18 10:57:50.999: lapp_on_call_handoff: Mailto Address = Mar 18 10:57:50.999:
lapp_on_conference_vtsp_fmosp: Begin conferencing VTSP and FMSP... Mar 18 10:57:50.999:
lapp_on_change_state: old state(0) new state(1) !--- HANDOFF to VTSP_FMOSP_CONFERENCINGMar 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 conferencedMar 18 10:57:51.003:
lapp_on_conference_created: Wait for FMSP call detail eventMar 18 10:57:51.003:
lapp_on_change_state: old state(1) new state(2) !--- VTSP_FMOSP_CONFERENCING to
FMOSP_CALL_DETAILMar 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 FMSPMar 18 10:57:59.139: lapp_on_setup_msmpi: Prep MSPI ccCallSetupRequest... Mar 18
10:57:59.139: lapp_on_setup_msmpi: Envelope from: FAX=8915510@vdtl-5300-7a.testlab-t37.comMar 18
10:57:59.139: lapp_on_setup_msmpi: Envelope to: FAX=8913144@testlab-t37.comMar 18 10:57:59.139:
lapp_on_setup_msmpi: rfc822_to_comment: 8913144Mar 18 10:57:59.139: lapp_on_setup_msmpi: Faxmail
subject: Fax from On-Ramp GW vdtl-5300-7a[DNIS=8913144][ANI=8915510]Mar 18 10:57:59.139:
lapp_on_setup_msmpi: Disposition notification to: admin@testlab-t37.com!--- A read receipt is
sent to admin@testlab-t37.com if the reader so chooses.Mar 18 10:57:59.139: lapp_on_setup_msmpi:
Originator's TSI = rfc822_from_comment = Fax Mar 18 10:57:59.139: lapp_on_setup_msmpi:
Auth/Account ID = 0Mar 18 10:57:59.139: lapp_on_setup_msmpi: Do ccCallSetupRequest to MSPIMar 18
10:57:59.139: lapp_on_conference_fmosp_dmosp: Starting conference with FMSP and DMSPMar 18
10:57:59.139: lapp_on_conference_fmosp_dmosp: tiff file created = 2002:03:18 10:57:59Mar 18
10:57:59.139: lapp_on_change_state: old state(2) new state(3) !--- FMOSP_CALL_DETAIL to
FMOSP_DMOSP_CONFERENCINGMar 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
conferencedMar 18 10:57:59.139: lapp_on_conference_created: Sending
CC_EV_TO_FMOSP_ON_RECEIVE_ENABLE to FMSPMar 18 10:57:59.139: lapp_on_change_state: old state(3)
new state(4) !--- FMOSP_DMOSP_CONFERENCING to FMOSP_PAGE_ACCEPT_REQUESTEDMar 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 MSPIMar 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 FMSPMar 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 DMSPMar 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 DMSPMar 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= 4Mar 18 10:58:34.355: lapp_on_call_disconnected: MSPI disconnectedMar 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 destroyedMar 18 10:58:34.355: lapp_on_conference_destroyed: Conference destroyed.... confID = 150Mar 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 destroyedMar 18 10:58:34.355: lapp_on_conference_destroyed: Conference destroyed.... confID = 151Mar 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 destroyedMar 18 10:58:34.355: lapp_on_conference_destroyed: Conference destroyed.... confID = 149Mar 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 FMSPMar 18 10:58:34.359: lapp_on_call_leg_cleanup: Sending disconnect for DMSPMar 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 = 219Mar 18 10:58:34.359: lapp_on_disconnect_done: DMSP disconnect doneMar 18 10:58:34.359: lapp_on_disconnect_done: Sending disconnect for MSPIMar 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 = 218Mar 18 10:58:34.359: lapp_on_disconnect_done: MSPI disconnect doneMar 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 = 217Mar 18 10:58:34.363: lapp_on_disconnect_done: FMSP disconnect doneMar 18 10:58:34.363: lapp_on_disconnect_done: Sending disconnect for VTSPMar 18 10:58:36.627: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 45 secondsMar 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 = 216Mar 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
disconnectedMar 18 10:58:37.651: lapp_on_change_state: old state(8) new state(9)!---
DISCONNECTING to TERMINALMar 18 10:58:37.651: lapp_on_call_terminate: Freeing the IVR call
handoff recordMar 18 10:58:37.655: lapp_on_call_terminate: Freeing the fax call recordvdtl-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 onvdtl-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:
esmtplib-client-engine-open: from=FAX=8915510@vdtl-5300-7a.testlab-t37.com, to=FAX=8913144@testlab-
t37.comMar 18 14:50:48.474: esmtplib-client-engine-add-headers: from_comment=Fax Mar 18
14:50:48.702: esmtplib-client-work: socket 0 attempting to connect to IP address 172.18.106.36Mar
18 14:50:48.702: esmtplib-client-work: socket 0 readable for first timeMar 18 14:50:48.702:
esmtplib-client-work: socket 0 readable for first timeMar 18 14:50:48.706: (C)R: 220 testlab-
smtp.testlab-t37.com Microsoft ESMTMP 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.comMar 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-TURNMar 18 14:50:49.170: (C)R: 250-ATRNMar 18 14:50:49.170: (C)R: 250-SIZEMar 18
14:50:49.170: (C)R: 250-ETRNMar 18 14:50:49.170: (C)R: 250-PIPELININGMar 18 14:50:49.170: (C)R:
250-DSNMar 18 14:50:49.170: (C)R: 250-ENHANCEDSTATUSCODESMar 18 14:50:49.170: (C)R: 250-
8bitmimeMar 18 14:50:49.170: (C)R: 250-BINARYMIMEMar 18 14:50:49.170: (C)R: 250-CHUNKINGMar 18
14:50:49.170: (C)R: 250-VRIFYMar 18 14:50:49.170: (C)R: 250-X-EXPS GSSAPI NTLM LOGINMar 18
14:50:49.170: (C)R: 250-X-EXPS=LOGINMar 18 14:50:49.170: (C)R: 250-AUTH GSSAPI NTLM LOGINMar 18
14:50:49.170: (C)R: 250-AUTH=LOGINMar 18 14:50:49.170: (C)R: 250-X-LINK2STATEMar 18
14:50:49.170: (C)R: 250-XEXCH50Mar 18 14:50:49.170: (C)R: 250 OKMar 18 14:50:49.170: (C)S: MAIL
FROM:<FAX=8915510@vdtl-5300-7a.testlab-t37.com> RET=HDRSMar 18 14:50:49.666: (C)R: 250 2.1.0
FAX=8915510@vdtl-5300-7a.testlab-t37.com...Sender OKMar 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.comMar 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 -0500Mar 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 -0500Mar 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.comMar 18 14:50:50.702: (C)S: MIME-Version:
1.0Mar 18 14:50:50.702: (C)S: Content-Type: multipart/fax-message;Mar 18 14:50:50.702: (C)S:
boundary="yradnuoB=_008B2002145048474.vdtl-5300-7a@testlab-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:
0Mar 18 14:51:05.702: (C)S: --yradnuoB=_008B2002145048474.vdtl-5300-7a@testlab-t37.comMar 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=faxbwMar 18 14:51:05.702: (C)S:
Content-Transfer-Encoding: base64Mar 18 14:51:05.706: esmtplib-client-work: writing lingering data
for socket 0Mar 18 14:51:05.714: esmtplib-client-work: writing lingering data for socket 0Mar 18
14:51:14.726: esmtplib-client-work: writing lingering data for socket 0Mar 18 14:51:14.734:
esmtplib-client-work: writing lingering data for socket 0Mar 18 14:51:14.738: (C)S: --
yradnuoB=_008B2002145048474.vdtl-5300-7a@testlab-t37.com--Mar 18 14:51:14.738: esmtplib-client-work:
```



14:46:30.736: t30 call4Leg=307, state=1, substate=4Mar 19 14:46:30.736: fax2_response_receive:
PROCESSINGMar 19 14:46:31.100: t30 call4Leg=307, state=1, substate=4Mar 19 14:46:31.100:
fax2_response_receive: PROCESSINGMar 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 1E 86 62 Mar 19 14:46:31.100: Mar 19 14:46:31.100: t30 call4Leg=307, state=1,
substate=4Mar 19 14:46:31.100: **received: TSI remote id string: Fax** Mar 19 14:46:31.100: t30
call4Leg=307, state=1, substate=4Mar 19 14:46:31.100: fax2_response_receive: PROCESSINGMar 19
14:46:31.532: t30 call4Leg=307, state=1, substate=4Mar 19 14:46:31.532: fax2_response_receive:
PROCESSINGMar 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=4Mar 19 14:46:31.532: fax2_response_receive:
PROCESSINGMar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=4Mar 19 14:46:31.672: in
response receive WAIT FOR CDMar 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 14400resolution: 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 fromapplicationMar 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_PACKETMar 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 expiredMar 19 14:46:36.472: t30 call4Leg=307, state=1, substate=6Mar 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 yetMar 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 expiredMar 19 14:46:43.872: t30
call4Leg=307, state=1, substate=6Mar 19 14:46:43.872: fax2_configure_rx_data: STILL_LOOKING,T2
timer not expiredMar 19 14:46:44.140: t30 call4Leg=307, state=1, substate=6Mar 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, T2timer not expiredMar 19 14:46:45.200: t30 call4Leg=307, state=1, substate=7Mar 19
14:46:45.200: fax2_command_receive: PROCESSINGMar 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=7Mar 19 14:46:45.200:
fax2_command_receive: PROCESSINGMar 19 14:46:45.352: t30 call4Leg=307, state=1, substate=7Mar 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 applicationMar 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=6Mar 19 14:46:45.352:
fax2_configure_rx_data: STILL_LOOKING,T2 timer not expiredMar 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 yetMar 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 pageMar 19 14:46:56.212: t30 call4Leg=307, state=1, substate=6Mar 19
14:46:56.212: fax2_configure_rx_data: STILL_LOOKING,T2 timer not expiredMar 19 14:46:56.212: t30
call4Leg=307, state=1, substate=6Mar 19 14:46:56.212: fax2_configure_rx_data: STILL_LOOKING,T2
timer not expiredMar 19 14:46:56.512: t30 call4Leg=307, state=1, substate=6Mar 19 14:46:56.512:
fax2_configure_rx_data:**DETECTED_COMMAND**Mar 19 14:46:56.512: t30 call4Leg=307, state=1,
substate=7Mar 19 14:46:56.512: fax2_command_receive: NO_COMMAND, T2timer not expiredMar 19
14:46:57.552: t30 call4Leg=307, state=1, substate=7Mar 19 14:46:57.552: fax2_command_receive:
PROCESSINGMar 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=7Mar 19 14:46:57.552: fax2_command_receive: PROCESSINGMar 19
14:46:57.700: t30 call4Leg=307, state=1, substate=7Mar 19 14:46:57.700:
fax2_command_receive:**RECEIVED_COMMAND**Mar 19 14:46:57.700: t30 call4Leg=307, state=3,
substate=8Mar 19 14:46:57.700: **received EOP !---** **Received End of Procedure.**Mar 19
14:46:57.700: t30 call4Leg=307, state=3, substate=10Mar 19 14:46:57.700: waiting for page
acceptance by the applicationMar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=17Mar 19
14:46:57.700: **send MCF !---** **Send a Message Confirmation.**Mar 19 14:46:57.700: t30
call4Leg=307, state=1, substate=6Mar 19 14:46:57.704: fax2_configure_rx_data: STILL_LOOKING,T2
timer not expiredMar 19 14:46:58.140: t30 call4Leg=307, state=0, substate=6 **!---**
state=PHASE_IDLEMar 19 14:46:58.140: fax session aborted by applicationMar 19 14:47:02.188:

%ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 38 secondsvdtl-5300-7a#vdtl-5300-7a# **debug fax relay t30 called-number 8913144**Debugging fax relay t30 to 8913144vdtl-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 **CSIMar 19 14:40:23.826: 0:D:302 1205782870 fr-msg-tx DISMar 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 **TSIMar 19 14:40:27.026: 0:D:302 1205786070 fr-msg-det DCSSMar 19 14:40:30.558: 0:D:302 1205789600 fr-msg-tx **CFRMar 19 14:40:40.766: 0:D:302 1205799810 fr-msg-det **MPSMar 19 14:40:41.266: 0:D:302 1205800310 fr-msg-tx **MCFMar 19 14:40:53.098: 0:D:302 1205812140 fr-msg-det **EOPMar 19 14:40:53.598: 0:D:302 1205812640 fr-msg-tx **MCFMar 19 14:40:56.390: 0:D:302 1205815430 fr-msg-det **DCNMar 19 14:40:57.682: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 38 secondsMar 19 14:40:58.518: 0:D:302 1205817560 fr-end-dcnfr-msg-tx indicates **T.30 messages that are transmitted by the routerfr-msg-det indicates T.30 messages that are received by the router******************

显示命令

```
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>sFR <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>dBmProxy
<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: 3SIP call-legs: 0H323 call-legs: 0Total call-legs: 51225 :
374672hs.31 +2 +1367 pid:8913180 Answer 8915510dur 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:0dBm122B : 401714hs.32 +100 +2966 pid:1 Originate andy@testlab-t37.comdur
00:00:28 tx:50942/0 rx:0/0 10 :0 (normal call clearing (16):)IP 172.18.106.36 AcceptedMime:0
DiscardedMime:01229 : 400917hs.33 +1 +4108 pid:8913180 Answer 8915510dur 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:0dBm1230 : 439580hs.34 +100 +2971 pid:1 Originate
andy@testlab-t37.comdur 00:00:28 tx:50942/0 rx:0/0 10 :0 (normal call clearing (16):)IP
172.18.106.36 AcceptedMime:0 DiscardedMime:0122E : 438783hs.35 +1 +4109 pid:8913180 Answer
8915510dur 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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