

# Отправка факса OnRamp T.37

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## Введение

Этот раздел основного документа [Store и Forward Fax T.37 FAX over IP](#) описывает отправляющее факсом хранение и пересылку OnRamp. OnRamp T.37 является процессом принятия факса - вызова, кодирования того факса в Теговый формат файлов изображения (TIFF) (TIFF) и передачи того TIFF к почтовому серверу как прикрепление.

Этот документ содержит конфигурацию, требуемую получить в рабочем состоянии функцию. Раздел [Устранения неполадок](#) пробегается через полезные **команды отладки** и как интерпретировать их значение. Используемую топологию показывают в разделе [Диаграммы сети](#).

## Предварительные условия

### Требования

Определенные требования для этого документа заданы в основном разделе, [Store и Forward Fax T.37 FAX over IP](#).

### Используемые компоненты

Настоящий документ не имеет жесткой привязки к каким-либо конкретным версиям программного обеспечения и оборудования.

Сведения, представленные в этом документе, были получены от устройств, работающих в специальной лабораторной среде. Все устройства, описанные в этом документе, были запущены с чистой (стандартной) конфигурацией. В рабочей сети необходимо изучить потенциальное воздействие всех команд до их использования.

## Условные обозначения

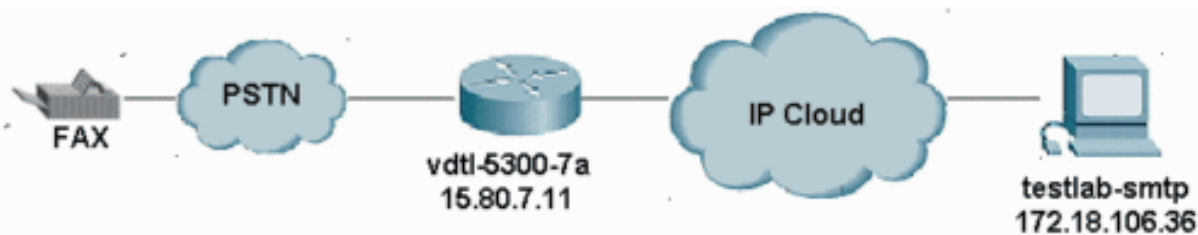
[Дополнительные сведения об условных обозначениях см. в документе Технические рекомендации Cisco. Условные обозначения.](#)

## !--- конфигурацию

В разделах ниже, сначала объяснены параметры конфигурации программного обеспечения Cisco IOS, относящиеся к конфигурации факса OnRamp, и затем 5300 конфигураций отображены с дальнейшими примечаниями, разъяснив функции важных команд. Некоторые параметры произвольной конфигурации могут быть найдены в разделе, который придерживается 5300 конфигураций.

## Схема сети

В данном документе используется сетевая установка, показанная на следующей схеме.



## Параметры конфигурации

Обязательные параметры:	
<a href="#">fax interface-type fax-mail</a>	Добавляет функциональность T.37 для шлюза. Требуется перезагрузка на этих 5300, но не 5350 или 5400.
<a href="#">mta send server</a>	Это - имя хоста или IP-адрес сервера Протокола SMTP, к которому переходит маршрутизатор, посылают электронное письмо OnRamp через. Без этой конфигурации маршрутизатор не знает, где послать электронное письмо OnRamp. Посмотрите, <a href="#">что Никакой</a>

	<p><a href="#">сервер не настроил</a> раздел для отладок и консольных сообщений без настроенного сервера.</p>
<p><a href="#">mta send postmaster</a></p>	<p>Если <b>mta, передаваемые почту</b> - от опций, не оценивают или не настроены, этот адрес используется. Это размещено в Поле "From" электронной почты OnRamp. Если <b>имя пользователя mta send mail-from</b> и <b>имя хоста mta send mail-from</b> присутствуют, это является дополнительным. <a href="#">Щелкните здесь</a> для отладки mspi для неудачного вызова.</p>
<p><a href="#">ip domain name</a></p>	<p>Используемый для определения почтового отправителя в Приветственном сообщении с именем хоста. имя домена. Маршрутизатор должен быть повторно загружен после того, как эта команда настроена.</p>
<p><a href="#">onramp call application voice flash:app_libretto_onramp.2.0.1.1.tcl</a></p>	<p>Определяет глобальное название для приложения (onramp, в этом случае) и его местоположение (во флэш-памяти маршрутизатора, в этом случае).</p>
<p><a href="#">dial-peer voice 8913180 приложений обычной телефонной сети в режиме OnRamp</a></p>	<p>Приложение OnRamp вызовов, когда совпадают с этой точкой вызова.</p>
<p><a href="#">приложение mmoip dial-peer voice 1 fax on vfc onramp_app исходящий</a></p>	<p>Приложение, которое вызовут, когда эта Мультимедийная почта поверх IP (MMoIP) совпадают с узлом. Предварительно связанный в программном обеспечении Cisco IOS. Видимый через <b>сводку</b></p>

	<b>show call application voice.</b>
Необязательные параметры:	
<a href="#">имя хоста mta send mail-from</a>	Это - имя хоста, которое будет использоваться в <b>Поле "From"</b> на электронной почте OnRamp. Обязательный, если не присутствует команда <b>mta send postmaster</b> . Если <b>имя пользователя mta send mail-from</b> используется, должен быть настроен.
<a href="#">mta send mail-from username</a>	Это - инициатор, чтобы использоваться в <b>Поле "From"</b> на электронной почте OnRamp. Используемый в сочетании с <b>именем хоста mta send mail-from</b> для получения всего Поля "From" — т.е. <b>username@hostname</b> . Обязательный, если не присутствует команда <b>mta send postmaster</b> . Если <b>имя хоста mta send mail-from</b> используется, должен быть настроен.
<a href="#">mta send subject</a>	Текстовая строка, которая будет использоваться в <b>Поле Тема</b> на электронной почте OnRamp.
<b>mta передают with-subject</b>	<ul style="list-style-type: none"> <li>• Добавляет номер вызывающего абонента с <b>\$\$</b> ключевого слова.</li> <li>• Добавляет номер вызываемого абонента с <b>\$d\$</b> ключевого слова.</li> <li>• Добавляет и вызов и номер вызываемого абонента с ключевым словом <b>оба</b>.</li> </ul> <p>Для показа отладки <a href="#">щелкнуть здесь</a>.</p>
<a href="#">mta send return-receipt-to</a>	Ключевые слова

	являются ИМЕНЕМ пользователя и ИМЕНЕМ хоста. Вместе они формируются disposition-notification-to:username@hostname.
<a href="#">mdn</a> mmoip номера dial-peer voice	Запрашивает, чтобы электронное письмо, передаваемое через этот MMoIP запросы от равноправного участника уведомление о размещении сообщения (MDN), было послано desitnation definted командой mta send return-receipt-to.
<a href="#">dsn</a> mmoip номера dial-peer voice {задерживается   успех   сбой}	Запрашивает, чтобы предупреждение статуса доставки (DSN) было передано назначению, определенному командой mta send mail-from

## [Конфигурация 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 vdtl-5300-7a mta send
with-subject both mta send postmaster administrator@testlab-t37.com ! !--- The address set with
mta send postmaster is used as the "From" address !--- unless mta send mail-from commands are
defined. ! mta send mail-from hostname vdtl-5300-7a.testlab-t37.com mta send mail-from username
$$ mta send return-receipt-to hostname testlab-t37.com mta send return-receipt-to username
admin mta receive maximum-recipients 0 call-history-mib retain-timer 500 ! controller T1 0
framing esf clock source line primary linecode b8zs pri-group timeslots 1-24 ! ! ! interface
Ethernet0 ip address 15.80.7.11 255.255.255.0 ! interface Serial0:23 no ip address isdn switch-
type primary-5ess isdn incoming-voice modem no cdp enable ! ip classless ip route 0.0.0.0
0.0.0.0 15.80.7.1 no ip http server ip pim bidir-enable ! call rsvp-sync ! call application
voice onramp flash:app_libretto_onramp.2.0.1.1.tcl !--- This identifies the call application to
use. It is named "onramp" in !--- this example. voice-port 0:D ! mgcp profile default ! dial-
peer voice 1 mmoip application fax_on_vfc_onramp_app out-bound destination-pattern 8913144
information-type fax session target mailto:$d$@testlab-t37.com ! !--- The MMoIP peers contain
configuration specific to the called party number. !--- It requests MDN and DSN. It identifies
the application to use for the outbound !--- call leg and specifies the address to which the
email will be sent. mdn dsn success dsn failure ! dial-peer voice 891314 pots application onramp
incoming called-number 891314[4-5] direct-inward-dial port 0:D !--- The pots peers for T.37 are
no different than for voice calls with the exception of !--- using the application defined above
in the call application global configuration !--- command. The direct-inward-dial command is

```

```
required unless using a redialer. ! line con 0 exec-timeout 0 0 line aux 0 line vty 0 4 login !
ntp clock-period 17179806 ntp server 172.18.106.15 end vdt1-5300-7a#
```

## Необязательная конфигурация

Вот некоторые параметры произвольной конфигурации. Первый пример показывает вам, как настроить множественные почтовые ящики с помощью традиционных адресов электронной почты, и второй пример показывает вам, как настроить множественные почтовые ящики с помощью номеров вызываемого абонента для адресов электронной почты.

### Пример 1:

<pre>! dial-peer voice 1 mmoip   application   fax_on_vfc_onram p_app out-bound   destination- pattern 8913144   information- type fax   session target mailto:andy@test lab-t37.com ! dial-peer voice 2 mmoip   application   fax_on_vfc_onram p_app out-bound   destination- pattern 8913145   information- type fax   session target mailto:bobby@tes tlab-t37.com ! dial-peer voice 891314 pots   application onramp   incoming called-number 891314[4-5]   direct-inward- dial port 0:D !</pre>	<p>В этой конфигурации PRI имеет два номера Direct Inward Dialing (DID): 891-3144 и 891-3145. В зависимости от которого набран номер, электронное письмо послано или <code>andy@testlab-t37.com</code> или <code>bobby@testlab-t37.com</code>.</p>
--	--

### Пример 2:

<pre>! dial-peer voice 1 mmoip   application   fax_on_vfc_onra mp_app out- bound   destination- pattern 8913144   information-</pre>	<p>С этой конфигурацией Сервис идентификации набранного номера (DNIS) (номер вызываемого абонента) вставлен в RCPT в: команда SMTP. Это позволяет клиентам давать каждому пользователю DID для приложений OnRamp. Они просто добавляют</p>
--	--

<pre>type fax session target mailto:\$d\$@test lab-t37.com !</pre>	<p>псевдоним на почтовом сервере. 12 марта 15:42:12.947: (C) S: RCPT к: &lt;FAX=8913144@testlab-t37.com&gt;</p>
--	---

**Примечание:** Удостоверьтесь, что псевдоним электронной почты является FAX=8913144@domain.com вместо 8913144@domain.com, или электронная почта не будет отправлена должным образом.

## Устранение неполадок

### Отказавшие отладки

**Примечание:** На изменения конфигурации обращают внимание выше отладок.

```
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 !
```

**Примечание:** Команда `mta send mail-from username` опущена от конфигурации, как команда `mta send postmaster`.

```
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 vdctl-5300-7a#
```

Та же проблема может быть замечена немного более ясная с этой отладкой:

```
vdctl-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 vdctl-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
```

## Никакой сервер не настроен

```
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 $$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#
```

## Настроенный сервер, но никакой IP-маршрут к серверу существует

```
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#
```

**Примечание:** Маршрутизатор не передает Полное доменное имя (FQDN) к Серверу Exchange MS, и этому не нравится синтаксис. Это вызвано тем, что маршрутизатор требует повторной загрузки после добавляющего "домена ip domain name"

```
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#

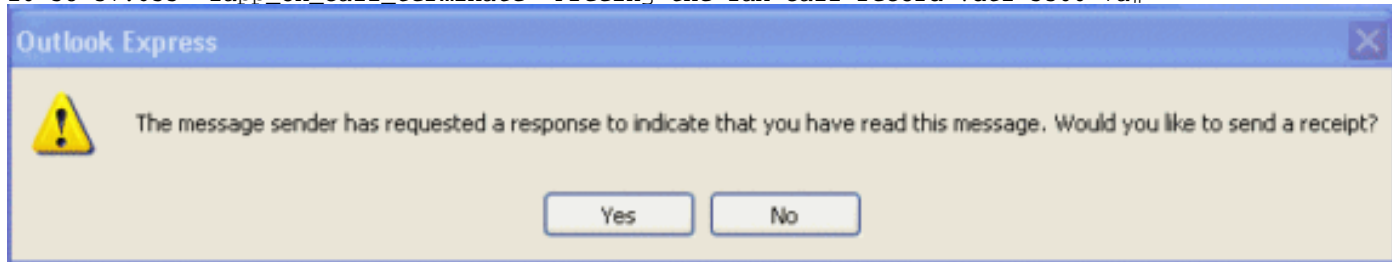
## Рабочие отладки

Эти команды отладки используются для стороны SMTP OnRamp:

vdtl-5300-7a# **debug foip on-ramp** FOIP On ramp faxmail debugging is on vdtl-5300-7a# Mar 18 10:57:50.995: lapp\_on\_application: Incoming Event: (15 = CC\_EV\_CALL\_HANDOFF), CID(216), DISP(0) Mar 18 10:57:50.995: lapp\_on\_call\_handoff: Authentication enabled = FALSE Mar 18 10:57:50.995: lapp\_on\_call\_handoff: Authentication ID = 0 Mar 18 10:57:50.995: lapp\_on\_call\_handoff: Authentication ID source = IVR or unknown Mar 18 10:57:50.999: lapp\_on\_call\_handoff: Authentication status = SUCCESS Mar 18 10:57:50.999: lapp\_on\_call\_handoff: Accounting enabled = FALSE Mar 18 10:57:50.999: lapp\_on\_call\_handoff: Accounting method list = fax Mar 18 10:57:50.999: lapp\_on\_call\_handoff: Mailto Address = Mar 18 10:57:50.999: lapp\_on\_conference\_vtsp\_fmosp: Begin conferencing VTSP and FMSP... Mar 18 10:57:50.999: lapp\_on\_change\_state: old state(0) new state(1) **!---** *HANDOFF to VTSP\_FMOSP\_CONFERENCING* Mar 18 10:57:51.003: lapp\_on\_application: Incoming Event: (29 = CC\_EV\_CONF\_CREATE\_DONE), CID(216), DISP(0) Mar 18 10:57:51.003: lapp\_on\_application: Current call state = 1 Mar 18 10:57:51.003: lapp\_on\_conference\_created: **The VTSP and the FMSP are conferenced** Mar 18 10:57:51.003: lapp\_on\_conference\_created: Wait for FMSP call detail event Mar 18 10:57:51.003: lapp\_on\_change\_state: old state(1) new state(2) **!---** *VTSP\_FMOSP\_CONFERENCING to 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 FMSP Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: Prep MSPI ccCallSetupRequest... Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: **Envelope from: FAX=8915510@vdtl-5300-7a.testlab-t37.com** Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: **Envelope to: FAX=8913144@testlab-t37.com** Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: rfc822\_to\_comment: 8913144 Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: **Faxmail subject: Fax from On-Ramp GW vdtl-5300-7a [DNIS=8913144][ANI=8915510]** Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: **Disposition notification to: admin@testlab-t37.com !---** *A read receipt is sent to admin@testlab-t37.com if the reader so chooses.* Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: Originator's TSI = rfc822\_from\_comment = Fax Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: Auth/Account ID = 0 Mar 18 10:57:59.139: lapp\_on\_setup\_msmpi: Do ccCallSetupRequest to MSPI Mar 18 10:57:59.139: lapp\_on\_conference\_fmosp\_dmosp: Starting conference with FMSP and DMSP Mar 18 10:57:59.139: lapp\_on\_conference\_fmosp\_dmosp: **tiff file created = 2002:03:18 10:57:59** Mar 18 10:57:59.139: lapp\_on\_change\_state: old state(2) new state(3) **!---** *FMOSP\_CALL\_DETAIL to FMOSP\_DMOSP\_CONFERENCING* Mar 18 10:57:59.139: lapp\_on\_application: Incoming Event: (29 = CC\_EV\_CONF\_CREATE\_DONE), CID(217), DISP(0) Mar 18 10:57:59.139: lapp\_on\_application: Current call state = 3 Mar 18 10:57:59.139: lapp\_on\_conference\_created: The FMSP and the DMSP are conferenced Mar 18 10:57:59.139: lapp\_on\_conference\_created: Sending CC\_EV\_TO\_FMOSP\_ON\_RECEIVE\_ENABLE to FMSP Mar 18 10:57:59.139: lapp\_on\_change\_state: old state(3) new state(4) **!---** *FMOSP\_DMOSP\_CONFERENCING to FMOSP\_PAGE\_ACCEPT\_REQUESTED* Mar 18 10:58:00.139: lapp\_on\_application: Incoming Event: (8 = CC\_EV\_CALL\_CONNECTED), CID(218), DISP(0) Mar 18 10:58:00.139: lapp\_on\_application: Current call state = 4 Mar 18 10:58:00.139: lapp\_on\_call\_connected: **Call connected event received.... - CID(218)** Mar 18 10:58:00.139: lapp\_on\_call\_connected: MSPI call connected - CID(218) Mar 18 10:58:00.139: lapp\_on\_call\_connected: Start conferencing the 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\_FMOSP\_ON\_PAGE\_ACCEPT\_REQUESTED), CID(217), DISP(0) Mar 18 10:58:11.539: lapp\_on\_application: Current call state = 4 Mar 18 10:58:11.539: lapp\_on\_msp\_event: **Page accept request arrived from fmosp** Mar 18 10:58:11.539: lapp\_on\_msp\_event: **Sending page accept event to the 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\_DMOSP\_ON\_PAGE\_PROCESSED), CID(219), DISP(146) Mar 18 10:58:16.015:

lapp\_on\_application: Current call state = 4 Mar 18 10:58:16.015: lapp\_on\_msp\_event: Page processed event arrived from the 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 fmisp** 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#



Клиент, получающий электронное письмо, видит окно, подобное тому выше при открытии электронной почты с набором MDN. Ответ, который получает проситель, находится в форме электронного письма, посланного пользователю с текстовым сообщением, которое читает, "Это - получение для электронного письма, которое вы послали "8913144" <FAX=8913144@testlab-t37.com> в 18.03.2002 10:58. Это получение проверяет, что сообщение было отображено на компьютере получателя в 18.03.2002 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-VRIFY 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:
esmtplib_client_work: Freeing ctx=0x6266946C Mar 18 14:51:15.406: esmtplib_client: returned from work,
context freed Mar 18 14:51:18.938: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from
8915510 , call lasted 38 seconds vdtl-5300-7a# vdtl-5300-7a# debug dmsp fax-to-doc Doc MSP fax to
doc debugging is on vdtl-5300-7a# Mar 18 14:53:03.338: %ISDN-6-CONNECT: Interface Serial0:18 is
now connected to 8915510 Mar 18 14:53:05.530: docmsp_call_setup_request: callid=227 Mar 18
14:53:05.530: docmsp_call_setup_request(): ramp data dir=ONRAMP, conf dir=DEST Mar 18
14:53:05.534: docmsp_caps_ind: call id=227, src=225 Mar 18 14:53:05.534: docmsp_bridge cfid=156,
srcid=227, dstid=225 Mar 18 14:53:05.534: docmsp_bridge(): ramp data dir=ONRAMP, conf
dir=DEST, encode out=2 Mar 18 14:53:06.530: docmsp_bridge cfid=157, srcid=227, dstid=226 Mar
18 14:53:06.530: docmsp_bridge(): ramp data dir=ONRAMP, conf dir=SRC, encode out=2 Mar 18
14:53:11.510: docmsp_xmit: call id src=225, dst=227 Mar 18 14:53:11.510:
docmsp_process_rcv_data: call id src=225, dst=227 Mar 18 14:53:12.350: docmsp_xmit: call id
src=225, dst=227 !--- Output suppressed. Mar 18 14:53:22.242: docmsp_process_rcv_data: call id
src=225, dst=227 Mar 18 14:53:22.242: docmsp_get_msp_event_buffer: Mar 18 14:53:23.082:
docmsp_xmit: call id src=225, dst=227 Mar 18 14:53:23.082: docmsp_process_rcv_data: call id
src=225, dst=227 Mar 18 14:53:23.922: docmsp_xmit: call id src=225, dst=227 !--- Output
suppressed. Mar 18 14:53:36.950: docmsp_process_rcv_data: call id src=225, dst=227 Mar 18
14:53:38.430: docmsp_xmit: call id src=225, dst=227 Mar 18 14:53:38.430:
docmsp_process_rcv_data: call id src=225, dst=227 Mar 18 14:53:38.434:
docmsp_get_msp_event_buffer: Mar 18 14:53:41.022: docmsp_bdrop cfid=156, srcid=227, dstid=225
Mar 18 14:53:41.022: docmsp_bdrop cfid=157, srcid=227, dstid=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#
```

**Примечание:** Команда *адреса debug mmoip send email* ничего не отображает на сам экран, но это очень полезно. Это использует маршрутизатор в качестве клиента SMTP для отправки электронного письма адресу, данному в команде отладки. Электронной почтой определили предмет в конфигурации и от "mspi Тестовый пользователь". Это содержит текстовое дополнение с линией, "Это - тестовое сообщение электронной почты, передаваемое через Cisco Приведенные в действие Факсовые сообщения Либретто".

Это отладки для стороны факса OnRamp:

```
vdtl-5300-7a# debug fmsp send t30 FMSF send t30 debugging is on vdtl-5300-7a# Mar 19
14:50:04.604: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:04.604: received flag of
modulation: 0 Mar 19 14:50:04.628: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to
8915510 Mar 19 14:50:06.252: msg dump:FF C0 C2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 1E 86 62 Mar 19
14:50:06.252: Mar 19 14:50:06.252: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:06.252:
received: TSI remote id string: Fax Mar 19 14:50:06.672: msg dump:FF C8 C1 0 47 E Mar 19
14:50:06.672: Mar 19 14:50:06.824: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:06.824: in
response receive WAIT FOR CD Mar 19 14:50:11.632: t30 call4Leg=311, state=1, substate=6 Mar 19
14:50:11.632: received flag of modulation: 8 Mar 19 14:50:19.304: t30 call4Leg=311, state=1,
substate=6 Mar 19 14:50:19.304: received flag of modulation: 0 Mar 19 14:50:20.364: msg dump:FF
C8 F2 Mar 19 14:50:20.364: Mar 19 14:50:22.324: t30 call4Leg=311, state=1, substate=6 Mar 19
14:50:22.324: received flag of modulation: 8 Mar 19 14:50:31.643: t30 call4Leg=311, state=1,
substate=6 Mar 19 14:50:31.643: received flag of modulation: 0 Mar 19 14:50:32.683: msg dump:FF
C8 F4 Mar 19 14:50:32.683: Mar 19 14:50:33.155: t30 call4Leg=311, state=0, substate=6 Mar 19
14:50:33.155: fax session aborted by application Mar 19 14:50:37.295: %ISDN-6-DISCONNECT:
Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds vdtl-5300-7a# vdtl-5300-
7a#debug fmsp receive t30 FMSF 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 acceptance by the application Mar 19 14:46:45.352: t30 call4Leg=307, state=3, substate=17 *!--- The substate is changed to SCHEDULE\_PP\_RESPONSE.* Mar 19 14:46:45.352: **send MCF *!--- Send a Message Confirmation.*** Mar 19 14:46:45.352: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:45.352: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:47.172: t30 call4Leg=307, state=1, substate=6 *!--- Now this must be done again, starting from the page data, because two pages *!--- are being sent.** Mar 19 14:46:47.172: fax2\_configure\_rx\_data: **DETECTED\_DATA** Mar 19 14:46:47.172: t30 call4Leg=307, state=2, substate=43 *!--- state = PHASE\_C\_RECEIVE, substate=RX\_FIRST\_DATA\_BYTE - starting to RX page data...* Mar 19 14:46:47.172: No data yet Mar 19 14:46:56.212: t30 call4Leg=307, state=2, substate=14 *!--- The substate is changed to RX\_DATA.* Mar 19 14:46:56.212: **end of page** Mar 19 14:46:56.212: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.212: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:56.212: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.212: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:56.512: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.512: fax2\_configure\_rx\_data: **DETECTED\_COMMAND** Mar 19 14:46:56.512: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:56.512: fax2\_command\_receive: NO\_COMMAND, T2 timer not expired Mar 19 14:46:57.552: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.552: fax2\_command\_receive: PROCESSING Mar 19 14:46:57.552: msg dump:FF C8 F4 Mar 19 14:46:57.552: Mar 19 14:46:57.552: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.552: fax2\_command\_receive: PROCESSING Mar 19 14:46:57.700: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.700: fax2\_command\_receive: RECEIVED\_COMMAND Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=8 Mar 19 14:46:57.700: **received EOP *!--- Received End of Procedure.*** Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=10 Mar 19 14:46:57.700: waiting for page acceptance by the application Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=17 Mar 19 14:46:57.700: **send MCF *!--- Send a Message Confirmation.*** Mar 19 14:46:57.700: t30 call4Leg=307,

```
state=1, substate=6 Mar 19 14:46:57.704: fax2_configure_rx_data: STILL_LOOKING, T2 timer not
expired Mar 19 14:46:58.140: t30 call4Leg=307, state=0, substate=6 !--- state=PHASE_IDLE Mar 19
14:46:58.140: fax session aborted by application Mar 19 14:47:02.188: %ISDN-6-DISCONNECT:
Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds vdtl-5300-7a# vdtl-5300-
7a# debug fax relay t30 called-number 8913144 Debugging fax relay t30 to 8913144 vdtl-5300-7a#
Mar 19 14:40:19.134: 0:D:302 1205778176 fr-entered (10ms) Mar 19 14:40:22.498: 0:D:302
1205781540 fr-msg-tx CSI Mar 19 14:40:23.826: 0:D:302 1205782870 fr-msg-tx DIS Mar 19
14:40:25.070: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 19
14:40:26.146: 0:D:302 1205785190 fr-msg-det TSI Mar 19 14:40:27.026: 0:D:302 1205786070 fr-msg-
det DCS Mar 19 14:40:30.558: 0:D:302 1205789600 fr-msg-tx CFR Mar 19 14:40:40.766: 0:D:302
1205799810 fr-msg-det MPS Mar 19 14:40:41.266: 0:D:302 1205800310 fr-msg-tx MCF Mar 19
14:40:53.098: 0:D:302 1205812140 fr-msg-det EOP Mar 19 14:40:53.598: 0:D:302 1205812640 fr-msg-
tx MCF Mar 19 14:40:56.390: 0:D:302 1205815430 fr-msg-det DCN Mar 19 14:40:57.682: %ISDN-6-
DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds Mar 19
14:40:58.518: 0:D:302 1205817560 fr-end-dcn fr-msg-tx indicates T.30 messages that are
transmitted by the router fr-msg-det indicates T.30 messages that are received by the router
```

Для получения дополнительной информации обратитесь к [Руководству по поиску и устранению проблем Ретрансляции факса](#).

## команды "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
```

## Дополнительные сведения

- [Отправка факса OffRamp T.37](#)
- [Передача факсов по протоколу IP: спецификация T.37, сохранение и переадресация факсов](#)
- [Поддержка голосовых технологий](#)
- [Поддержка продуктов Голосовой и Унифицированной связи](#)
- [Устранение неполадок в системах IP-телефонии Cisco](#)
- [Техническая поддержка - Cisco Systems](#)