

# T.37 オンランプ ファクシミリ

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## 概要

『Fax over IP T.37 Store and Forward Fax』メイン ドキュメントのこの項では、OnRamp ストア アンド フォワード ファックス送信について説明します。OnRamp T.37 は、FAX コールを受け入れ、FAX を Tagged Image File Format ( TIFF ) にエンコードし、その TIFF を添付ファイルとして電子メール サーバに送信するプロセスです。

このマニュアルでは、機能を使用可能にするために必要な設定について説明します。「[トラブルシューティング](#)」の項では、[便利な debug コマンドとその意味を解釈する方法](#)について確認します。使用するトポロジは、「[ネットワーク構成図](#)」の項で示されます。

## 前提条件

### 要件

このドキュメントにおける特定の要件は、メイン セクションの「[Fax Over IP の T.37 ストア アンド フォワードのファクス](#)」で指定されます。

### 使用するコンポーネント

このドキュメントの内容は、特定のソフトウェアやハードウェアのバージョンに限定されるものではありません。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期（デフォルト）設定の状態から起動しています。対象のネットワークが稼働中である場合には、どのようなコマンドについても、その潜在的な影響について確実に理解しておく必要があります。

## 表記法

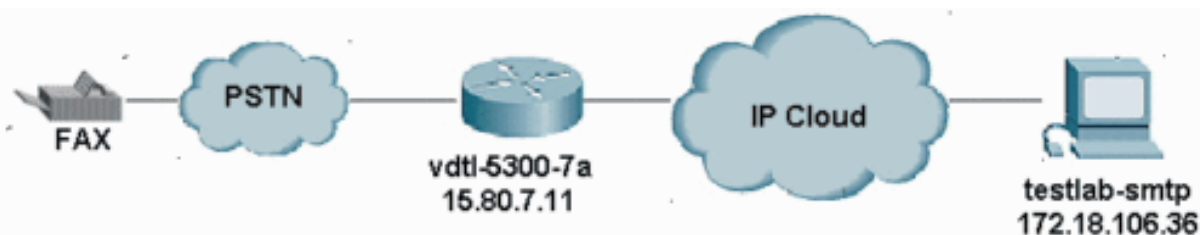
ドキュメント表記の詳細は、「[シスコテクニカルティップスの表記法](#)」を参照してください。

## コンフィギュレーション

以下のセクションでは、まずオンランプファクス設定に関連する Cisco IOS® ソフトウェアの設定パラメータについて説明し、次に 5300 設定で重要なコマンドの機能を明確にする補足説明を示します。オプションの設定パラメータの一部は、5300 設定に続くセクションで確認できます。

## ネットワーク図

このドキュメントでは次の図に示すネットワーク構成を使用しています。



## 設定パラメータ

必須パラメータ :	
<a href="#">fax interface-type fax-mail</a>	ゲートウェイの T.37 機能を有効にします。5300 でリポートが必要ですが、5350 または 5400 では必要ありません。
<a href="#">mta send server</a>	これは、ルータがオンランプ電子メールを送信する簡易メール転送プロトコル (SMTP) サーバのホスト名または IP アドレスです。この設定を行わないと、ルータはオンランプ電子メールを送信する場所がわかりません。サーバが設定されない場合のデバッグおよびコンソールメッセージについては、「 <a href="#">サーバが設定されていない</a> 」セクションを参照してください。
<a href="#">mta send postmaster</a>	このアドレスは、mta sent mail-from オプションが評価

	<p>されないか、設定されていない場合に使用されます。これは、オンランプ電子メールの[From] フィールドで設定されます。これは、<b>mta send mail-from username</b> と <b>mta send mail-from hostname</b> が存在する場合オプションです。失敗したコールの <b>debug mspi</b> については、<a href="#">ここをクリックしてください。</a></p>
<a href="#">ip domain-name</a>	<p><b>hostname.domain-name</b> を含む HELO のメッセージの電子メールの送信者を識別するために使用されます。ルータは、このコマンドを設定後にリロードする必要があります。</p>
<a href="#">call application voice onramp flash:app libretto onramp.2.0.1.1.tcl</a>	<p>アプリケーション (この場合、オンランプ) とその場所 (この場合、ルータのフラッシュ内) のグローバル名を定義します。</p>
<a href="#">dial-peer voice 8913180 pots application onramp</a>	<p>このダイヤル ピアが一致する場合、アプリケーション オンランプをコールします。</p>
<a href="#">dial-peer voice 1 mmoip application fax on vfc onramp app out-bound</a>	<p>このマルチメディア メール オーバー IP (MMoIP) ピアが一致する場合、コールされるアプリケーション。Cisco IOS ソフトウェアにあらかじめバンドルされます。<b>show call application voice summary</b> を通じて確認できます。</p>
オプション パラメータ :	
<a href="#">mta send mail-from hostname</a>	<p>これは、オンランプ電子メールの [From] フィールドに使用するホスト名です。<b>mta send postmaster</b> コマンドが存在しない場合、必須です。<b>mta send mail-from username</b> を使用する場合、設定する必要があります。</p>
<a href="#">mta send mail-from username</a>	<p>これは、オンランプ電子メールの [From] フィールドで使用する発信元です。[From] フィールド全体、つ</p>

	<p>まり <code>username@hostname</code> を取得するために、<code>mta send mail-from hostname</code> とともに使用されます。  <code>mta send postmaster</code> コマンドが存在しない場合、必須です。<code>mta send mail-from hostname</code> を使用する場合、設定する必要があります。</p>
<a href="#">mta send subject</a>	<p>オンランプ電子メールの [Subject] フィールドで使用するテキスト文字列です。</p>
<code>mta send with-subject</code>	<ul style="list-style-type: none"> <li>• キーワード <code>\$\$</code> を含む 発信者番号を追加します。</li> <li>• キーワード <code>\$d\$</code> を含む 着信者番号を追加します。</li> <li>• キーワード <code>both</code> を含む の発信者番号と着信者番号の両方を追加します。</li> </ul> <p>デバッグの表示については、<a href="#">ここ</a>をクリックしてください。</p>
<a href="#">mta send return-receipt-to</a>	<p>キーワードは、<code>username</code> と <code>hostname</code> です。これらが一緒に <code>disposition-notification-to:username@hostname</code> を形成します。</p>
<code>dial-peer voice number mmoip <a href="#">mdn</a></code>	<p>この MMoIP ピア要求を通じて送信された電子メールの message disposition notification ( MDN ) が <code>mta send return-receipt-to</code> コマンドによって定義された宛先に送信されるように要求します。</p>
<code>dial-peer voice number mmoip <a href="#">dsn {delay  成功  エラー}</a></code>	<p>Delivery Status Notice ( DSN ) が <code>mta send mail-from</code> コマンドによって定義された宛先に送信されるように要求します。</p>

## [オンランプ設定](#)

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:$d$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#

```

## オプションの設定

オプションの設定パラメータの一部を次に示します。最初の例は、従来の電子メール アドレスを使用して複数の電子メール アカウントを設定する方法を示し、2 番目の例は、電子メール アドレスの着信者番号を使用して複数の電子メール アカウントを設定する方法を示します。

### 例 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 </pre>	<p>この設定では、PRI に次の 2 本のダイヤルイン ( DID ) があります。891-3144 および 891-3145。どの番号をダイヤルするかによって、電子メールは <code>andy@testlab-t37.com</code> または <code>bobby@testlab-t37.com</code> のいずれかに送信されます。</p>
--	---

<pre>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>	
--	--

## 例 2 :

<pre>! dial-peer voice 1 mmoip application fax_on_vfc_onramp _app out-bound destination- pattern 8913144 information-type fax session target mailto:\$d\$@testla b-t37.com !</pre>	<p>この設定により、着信番号識別サービス (DNIS) (着信者番号) は RCPT TO:SMTP コマンドに挿入されます。これにより、お客様はオンランプアプリケーションの各ユーザに DID を提供することができます。これらは、電子メールサーバのエイリアスを追加しません。Mar 12 15:42:12.947:(C)S:RCPT TO:&lt;FAX=8913144@testlab-t37.com&gt;</p>
--	--

**注 :** 電子メールエイリアスが 8913144@domain.com ではなく FAX=8913144@domain.com であることを確認してください。そうしないと、電子メールが正しく配信されません。

## [トラブルシューティング](#)

### [失敗したデバッグ](#)

**注 :** 設定の変更はデバッグの上に記載されています。

```
debug mspi send
!
fax interface-type fax-mail
mta send server testlab-smtp.testlab-t37.com port 25
mta send mail-from hostname whatever.com
```

```
mta receive maximum-recipients 0
call-history-mib retain-timer 500
!
```

**注** : mta send mail-from usernameコマンドは、mta send postmasterコマンドと同様に設定から省略します。

```
vdt1-5300-7a#
Mar 4 10:03:29.165: mspi_setup_req: for cid=0x27
Mar 4 10:03:29.165: envelope_from=FAX=@ !--- Note: This is not a valid email address (no domain). Mar 4 10:03:29.165: envelope_to=andy@testlab-t37.com
Mar 4 10:03:30.165: mspi_chk_connect: cid=0x27, cnt=0,
Mar 4 10:03:30.165: SMTP connected to the server ! !--- The connection to the SMTP server is initiated. Mar 4 10:03:30.165: mspi_bridge: cid=0x27, dst cid=0x28, Mar 4 10:03:56.985:
mspi_xmit: cid=0x27, st=CONFERENCED, src_cid=0x28, buf cnt=0 Mar 4 10:03:56.985: %MSPI-4-MSPI_NO SMTP_SEND: MSPI- Could not
send data to the SMTP server, cid=39, mspi_on_xmit, lost connection
Mar 4 10:03:56.985: mspi_on_xmit: cid=0x27, lost connection
Mar 4 10:03:56.985: disc text=no route to destination (3): SMTP client engine
lost connection !--- The statement "no route to destination" is a little misleading as a cause code. Mar 4 10:03:56.985: mspi_xmit: cid=0x27, st=ABORTING, src_cid=0x28 Mar 4 10:03:56.985:
discarding buffer !--- Several lines of mspi_xmit debugs that were identical to the lines above !-- and below this note have been suppressed. Mar 4 10:03:56.989: mspi_xmit: cid=0x27,
st=ABORTING, src_cid=0x28 Mar 4 10:03:56.993: discarding buffer Mar 4 10:03:56.993:
%LAPP_ON_MSGS-6-LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client did not connect or lost connection
to remote server Mar 4 10:03:56.993: mspi_bridge_drop: cid=0x27, dst cid=0x28, st=ABORTING,
onramp Mar 4 10:03:56.993: mspi_disconnect: cid=0x27, st=DISCONNECTING, cause=no route to
destination (3) Mar 4 10:03:56.993: mspi_on_call_hist: cid=0x27, cause=no route to destination
(3): SMTP client engine lost connection Mar 4 10:03:56.993: disposing smtp ctx Mar 4
10:03:56.993: mspi_free_ccb: mmccb allocated=1, inserted=0 vdt1-5300-7a#
```

以下のデバッグでは、同じ問題が若干明確に確認できます。

```
vdt1-5300-7a# 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 vdt1-5300-7a.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:
```

*!--- This is the mail from command.*



```
Mar 5 16:48:47.708: (C)R: 501 5.5.4 Invalid Address !--- The
server does not like the address. Mar 5 16:48:47.708: esmtp_client_work: error in response to
MAIL FROM !--- This tells exactly where the problem occurred in the SMTP exchange. Mar 5
16:48:47.708: esmtp_client_work: ERROR, socket=0 Mar 5 16:49:15.132: %MSPI-4-MSPI_NO_SMTP_SEND:
MSPI- Could not send data to the SMTP server, cid=96, mspi_on_xmit, lost connection Mar 5
16:49:15.132: %LAPP_ON_MSGS-6-LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client did not connect or
lost connection to remote server Mar 5 16:49:15.208: esmtp_client_work: Freeing ctx=0x62616C4C
Mar 5 16:49:15.208: esmtp_client: returned from work, context freed
```

### サーバが設定されていない

```
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#
```

### サーバは設定されているがサーバに IP ルートが存在しない

```
vdtl-5300-7a# debug mspi send
Mail SPI send debugging is on
vdtl-5300-7a#
Mar 20 09:35:27.126: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510
Mar 20 09:35:29.306: mspi_setup_req: for cid=0x141
Mar 20 09:35:29.306: envelope_from=FAX=8915510@vdtl-5300-7a.testlab-t37.com
Mar 20 09:35:29.310: envelope_to=FAX=8913144@testlab-t37.com
Mar 20 09:35:30.310: mspi_chk_connect: cid=0x141, cnt=0,
Mar 20 09:35:30.310: SMTP is in the error state...
Mar 20 09:35:30.310: disc text=no route to destination (3): SMTP client open failed
Mar 20 09:35:30.310: Still waiting for the SMTP connection..... !--- You can tell that the SMTP
connection was never established. Mar 20 09:35:30.310: %LAPP_ON_MSGS-6-
LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client
did not connect or lost connection to remote server
Mar 20 09:35:30.310: mspi_disconnect: cid=0x141, st=DISCONNECTING, cause=no route
to destination (3) !--- This cause code seems to be an accurate description of the problem.
Mar 20 09:35:30.310: mspi_on_call_hist: cid=0x141, cause=no route to destination (3):
SMTP client open failed
Mar 20 09:35:30.310: disposing smtp ctx
Mar 20 09:35:30.310: mspi_free_ccb: mmccb allocated=1, inserted=0
Mar 20 09:35:36.006: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510,
call lasted 14 seconds
vdtl-5300-7a#
```

注：ルータは完全修飾ドメイン名(FQDN)をMS Exchangeサーバに送信しておらず、構文が気に入りません。これは、ルータが「ip domain-name domain」を追加後、リロードが必要になるためです。

```
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 ESMTMP MAIL Service,
Version: 5.0.2195.4453 ready at Thu, 28 Mar 2002 09:54:02 -0500
Mar 28 09:55:18.076: (C)S: EHLO vdtl-5300-7a. !--- The Exchange server does not like the
trailing dot (.). Mar 28 09:55:18.484: (C)R: 501 5.5.4 Invalid Address
Mar 28 09:55:18.484: 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#
```

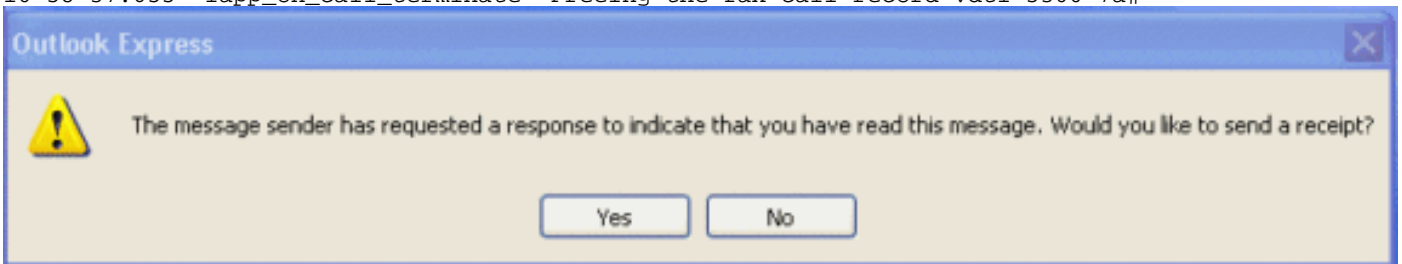
## 正常に動作するデバッグ

次の debug コマンドは、オンランプの SMTP の側で使用されます。

```
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_mspi: Prep MSPI ccCallSetupRequest... Mar 18
10:57:59.139: lapp_on_setup_mspi: Envelope from: FAX=8915510@vdtl-5300-7a.testlab-t37.com
Mar 18 10:57:59.139: lapp_on_setup_mspi: Envelope to: FAX=8913144@testlab-t37.com
Mar 18 10:57:59.139: lapp_on_setup_mspi: rfc822_to_comment: 8913144
Mar 18 10:57:59.139: lapp_on_setup_mspi: Faxmail subject: Fax from On-Ramp GW vdtl-5300-7a
[DNIS=8913144] [ANI=8915510]
Mar 18 10:57:59.139: lapp_on_setup_mspi: Disposition notification to: admin@testlab-t37.com
!--- A read receipt is sent to admin@testlab-t37.com if the reader so chooses. Mar 18
10:57:59.139: lapp_on_setup_mspi: Originator's TSI = rfc822_from_comment = Fax Mar 18
10:57:59.139: lapp_on_setup_mspi: Auth/Account ID = 0 Mar 18 10:57:59.139: lapp_on_setup_mspi:
Do ccCallSetupRequest to MSPI Mar 18 10:57:59.139: lapp_on_conference_fmosp_dmosp: Starting
conference with FMSP and DMSP Mar 18 10:57:59.139: lapp_on_conference_fmosp_dmosp: tiff file
created = 2002:03:18 10:57:59
```

Mar 18 10:57:59.139: lapp\_on\_change\_state: old state(2) new state(3) *!--- FMSP\_CALL\_DETAIL to FMSP\_DMSP\_CONFERENCING* Mar 18 10:57:59.139: lapp\_on\_application: Incoming Event: (29 = CC\_EV\_CONF\_CREATE\_DONE), CID(217), DISP(0) Mar 18 10:57:59.139: lapp\_on\_application: Current call state = 3 Mar 18 10:57:59.139: lapp\_on\_conference\_created: The FMSP and the DMSP are conferenced Mar 18 10:57:59.139: lapp\_on\_conference\_created: Sending CC\_EV\_TO\_FMSP\_ON\_RECEIVE\_ENABLE to FMSP Mar 18 10:57:59.139: lapp\_on\_change\_state: old state(3) new state(4) *!--- FMSP\_DMSP\_CONFERENCING to FMSP\_PAGE\_ACCEPT\_REQUESTED* Mar 18 10:58:00.139: lapp\_on\_application: Incoming Event: (8 = CC\_EV\_CALL\_CONNECTED), CID(218), DISP(0) Mar 18 10:58:00.139: lapp\_on\_application: Current call state = 4 Mar 18 10:58:00.139: lapp\_on\_call\_connected: **Call connected event received.... - CID(218)** Mar 18 10:58:00.139: lapp\_on\_call\_connected: MSPI call connected - CID(218) Mar 18 10:58:00.139: lapp\_on\_call\_connected: Start conferencing the DMSP and the MSPI Mar 18 10:58:00.139: lapp\_on\_application: Incoming Event: (29 = CC\_EV\_CONF\_CREATE\_DONE), CID(219), DISP(0) Mar 18 10:58:00.139: lapp\_on\_application: Current call state = 4 Mar 18 10:58:11.539: lapp\_on\_application: Incoming Event: (36 = CC\_EV\_FROM\_FMSP\_ON\_PAGE\_ACCEPT\_REQUESTED), CID(217), DISP(0) Mar 18 10:58:11.539: lapp\_on\_application: Current call state = 4 Mar 18 10:58:11.539: lapp\_on\_msp\_event: **Page accept request arrived from fmsp** Mar 18 10:58:11.539: lapp\_on\_msp\_event: **Sending page accept event to the FMSP** Mar 18 10:58:11.539: lapp\_on\_msp\_event: **Pages processed = 1** *!--- The first fax page is received.* Mar 18 10:58:11.539: lapp\_on\_change\_state: old state(4) new state(4) Mar 18 10:58:16.015: lapp\_on\_application: Incoming Event: (37 = CC\_EV\_FROM\_DMSP\_ON\_PAGE\_PROCESSED), CID(219), DISP(146) Mar 18 10:58:16.015: lapp\_on\_application: Current call state = 4 Mar 18 10:58:16.015: lapp\_on\_msp\_event: Page processed event arrived from the DMSP Mar 18 10:58:16.015: lapp\_on\_change\_state: old state(4) new state(4) Mar 18 10:58:30.719: lapp\_on\_application: Incoming Event: (36 = CC\_EV\_FROM\_FMSP\_ON\_PAGE\_ACCEPT\_REQUESTED), CID(217), DISP(0) Mar 18 10:58:30.719: lapp\_on\_application: Current call state = 4 Mar 18 10:58:30.719: lapp\_on\_msp\_event: **Page accept request arrived from fmsp** Mar 18 10:58:30.719: lapp\_on\_msp\_event: **Sending page accept event to the FMSP** Mar 18 10:58:30.719: lapp\_on\_msp\_event: **Pages processed = 2** *!--- The second fax page is received.* Mar 18 10:58:30.719: lapp\_on\_change\_state: old state(4) new state(4) Mar 18 10:58:32.199: lapp\_on\_application: Incoming Event: (37 = CC\_EV\_FROM\_DMSP\_ON\_PAGE\_PROCESSED), CID(219), DISP(0) Mar 18 10:58:32.199: lapp\_on\_application: Current call state = 4 Mar 18 10:58:32.199: lapp\_on\_msp\_event: Page processed event arrived from the DMSP Mar 18 10:58:32.199: lapp\_on\_change\_state: old state(4) new state(4) Mar 18 10:58:34.355: lapp\_on\_application: Incoming Event: (11 = CC\_EV\_CALL\_DISCONNECTED), CID(218), DISP(0) Mar 18 10:58:34.355: lapp\_on\_application: Current call state = 4 Mar 18 10:58:34.355: lapp\_on\_call\_disconnected: Call Disconnected - CID= 218 cause= 0x10 call\_state= 4 Mar 18 10:58:34.355: lapp\_on\_call\_disconnected: MSPI disconnected Mar 18 10:58:34.355: lapp\_on\_call\_disconnected: **Faxmail acknowledged by remote SMTP server** Mar 18 10:58:34.355: lapp\_on\_change\_state: old state(4) new state(7) *!--- FMSP\_PAGE\_ACCEPT\_REQUESTED to CONFERENCE\_DESTROYING* Mar 18 10:58:34.355: lapp\_on\_conference\_cleanup: Destroying conferences... Mar 18 10:58:34.355: lapp\_on\_conference\_cleanup: **Destroying conference for VTSP & FMSP** Mar 18 10:58:34.355: lapp\_on\_conference\_cleanup: **Destroying conference for FMSP & DMSP** Mar 18 10:58:34.355: lapp\_on\_conference\_cleanup: **Destroying conference for DMSP & MSPI** Mar 18 10:58:34.355: lapp\_on\_application: Incoming Event: (30 = CC\_EV\_CONF\_DESTROY\_DONE), CID(217), DISP(0) Mar 18 10:58:34.355: lapp\_on\_application: Current call state = 7 Mar 18 10:58:34.355: lapp\_on\_conference\_destroyed: FMSP/DMSP conference destroyed Mar 18 10:58:34.355: lapp\_on\_conference\_destroyed: Conference destroyed.... confID = 150 Mar 18 10:58:34.355: lapp\_on\_application: Incoming Event: (30 = CC\_EV\_CONF\_DESTROY\_DONE), CID(219), DISP(0) Mar 18 10:58:34.355: lapp\_on\_application: Current call state = 7 Mar 18 10:58:34.355: lapp\_on\_conference\_destroyed: DMSP/MSPI conference destroyed Mar 18 10:58:34.355: lapp\_on\_conference\_destroyed: Conference destroyed.... confID = 151 Mar 18 10:58:34.355: lapp\_on\_application: Incoming Event: (30 = CC\_EV\_CONF\_DESTROY\_DONE), CID(216), DISP(0) Mar 18 10:58:34.355: lapp\_on\_application: Current call state = 7 Mar 18 10:58:34.355: lapp\_on\_conference\_destroyed: VTSP/FMSP conference destroyed Mar 18 10:58:34.355: lapp\_on\_conference\_destroyed: Conference destroyed.... confID = 149 Mar 18 10:58:34.355: lapp\_on\_change\_state: old state(7) new state(8) *!--- CONFERENCE\_DESTROYING*

to DISCONNECTING Mar 18 10:58:34.355: lapp\_on\_conference\_destroyed: All conferences are destroyed. Mar 18 10:58:34.355: lapp\_on\_change\_state: old state(8) new state(8) Mar 18 10:58:34.355: lapp\_on\_call\_leg\_cleanup: Sending disconnect for FMSP Mar 18 10:58:34.359: lapp\_on\_call\_leg\_cleanup: Sending disconnect for DMSP Mar 18 10:58:34.359: lapp\_on\_application: Incoming Event: (12 = CC\_EV\_CALL\_DISCONNECT\_DONE), CID(219), DISP(0) Mar 18 10:58:34.359: lapp\_on\_application: Current call state = 8 Mar 18 10:58:34.359: lapp\_on\_disconnect\_done: Received call disconnect done ... callID = 219 Mar 18 10:58:34.359: lapp\_on\_disconnect\_done: DMSP disconnect done Mar 18 10:58:34.359: lapp\_on\_disconnect\_done: Sending disconnect for MSPI Mar 18 10:58:34.359: lapp\_on\_application: Incoming Event: (12 = CC\_EV\_CALL\_DISCONNECT\_DONE), CID(218), DISP(0) Mar 18 10:58:34.359: lapp\_on\_application: Current call state = 8 Mar 18 10:58:34.359: lapp\_on\_disconnect\_done: Received call disconnect done ... callID = 218 Mar 18 10:58:34.359: lapp\_on\_disconnect\_done: MSPI disconnect done Mar 18 10:58:34.363: lapp\_on\_application: Incoming Event: (12 = CC\_EV\_CALL\_DISCONNECT\_DONE), CID(217), DISP(0) Mar 18 10:58:34.363: lapp\_on\_application: Current call state = 8 Mar 18 10:58:34.363: lapp\_on\_disconnect\_done: Received call disconnect done ... callID = 217 Mar 18 10:58:34.363: lapp\_on\_disconnect\_done: FMSP disconnect done Mar 18 10:58:34.363: lapp\_on\_disconnect\_done: Sending disconnect for VTSP Mar 18 10:58:36.627: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 45 seconds Mar 18 10:58:37.647: lapp\_on\_application: Incoming Event: (28 = CC\_EV\_CALL\_FEATURE), CID(216), DISP(0) Mar 18 10:58:37.647: lapp\_on\_application: Current call state = 8 Mar 18 10:58:37.647: lapp\_on\_event\_unsupported: Unsupported event received--- Mar 18 10:58:37.647: lapp\_on\_event\_unsupported: EV(28=CC\_EV\_CALL\_FEATURE), CID(216), disp(0) Mar 18 10:58:37.647: lapp\_on\_event\_unsupported: Current call state = 8 Mar 18 10:58:37.651: lapp\_on\_application: Incoming Event: (12 = CC\_EV\_CALL\_DISCONNECT\_DONE), CID(216), DISP(0) Mar 18 10:58:37.651: lapp\_on\_application: Current call state = 8 Mar 18 10:58:37.651: lapp\_on\_disconnect\_done: **Received call disconnect done ... callID = 216** Mar 18 10:58:37.651: lapp\_on\_disconnect\_done: **VTSP disconnect done** Mar 18 10:58:37.651: lapp\_on\_disconnect\_done: All the calls are now void or disconnected Mar 18 10:58:37.651: lapp\_on\_change\_state: old state(8) new state(9)!--- DISCONNECTING to TERMINAL Mar 18 10:58:37.651: lapp\_on\_call\_terminate: Freeing the IVR call handoff record Mar 18 10:58:37.655: lapp\_on\_call\_terminate: Freeing the fax call record vdt1-5300-7a#



電子メールを受信するクライアントは、MDN セットを使用して電子メールを開く際に、上記のようなウィンドウを表示します。要求側が受信する応答は、「This is a receipt for the email you sent to "8913144" <Fax=8913144@testlab-t37.com> at 3/18/2002 10:58AM.This receipt verifies that the message has been displayed on the recipient's computer at 3/18/2002 11:07 AM.」というメッセージ テキストによってユーザに送信された電子メール形式になります。

```
vdt1-5300-7a# debug mta send all
```

```
All email send debugging is on
```

```
vdt1-5300-7a#
```

```
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@vdt1-5300-7a.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 vdt1-5300-7a.testlab-t37.com
```

```
Mar 18 14:50:49.166: (C)R: 250-testlab-smtp.testlab-t37.com Hello [15.80.7.11]
```

Mar 18 14:50:49.166: (C)R: 250-TURN  
Mar 18 14:50:49.170: (C)R: 250-ATRN  
Mar 18 14:50:49.170: (C)R: 250-SIZE  
Mar 18 14:50:49.170: (C)R: 250-ETRN  
Mar 18 14:50:49.170: (C)R: 250-PIPELINING  
Mar 18 14:50:49.170: (C)R: 250-DSN  
Mar 18 14:50:49.170: (C)R: 250-ENHANCEDSTATUSCODES  
Mar 18 14:50:49.170: (C)R: 250-8bitmime  
Mar 18 14:50:49.170: (C)R: 250-BINARYMIME  
Mar 18 14:50:49.170: (C)R: 250-CHUNKING  
Mar 18 14:50:49.170: (C)R: 250-VERFY  
Mar 18 14:50:49.170: (C)R: 250-X-EXPS GSSAPI NTLM LOGIN  
Mar 18 14:50:49.170: (C)R: 250-X-EXPS=LOGIN  
Mar 18 14:50:49.170: (C)R: 250-AUTH GSSAPI NTLM LOGIN  
Mar 18 14:50:49.170: (C)R: 250-AUTH=LOGIN  
Mar 18 14:50:49.170: (C)R: 250-X-LINK2STATE  
Mar 18 14:50:49.170: (C)R: 250-XEXCH50  
Mar 18 14:50:49.170: (C)R: 250 OK  
Mar 18 14:50:49.170: (C)**S: MAIL FROM:**

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:**

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**

Mar 18 14:50:50.698: (C)S: Received: by vdtl-5300-7a.testlab-t37.com for Mar 18 14:51:05.706:  
esmtplib\_client\_work: writing lingering data for socket 0 Mar 18 14:51:05.714: esmtplib\_client\_work:  
writing lingering data for socket 0 Mar 18 14:51:14.726: esmtplib\_client\_work: writing lingering  
data for socket 0 Mar 18 14:51:14.734: esmtplib\_client\_work: writing lingering data for socket 0  
Mar 18 14:51:14.738: (C)S: --yradnuob=008B2002145048474.vdtl-5300-7a.testlab-t37.com-- Mar 18  
14:51:14.738: esmtplib\_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, srccid=227, dstcid=225



Mar 19 14:50:37.295: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 ,  
call lasted 38 seconds  
vdtl-5300-7a#

vdtl-5300-7a#**debug fmsp receive t30**

FMSP receive t30 debugging is on

vdtl-5300-7a#

Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=3 *!--- state=PHASE\_B\_RECEIVE  
substate=TX\_DIS\_DTC\_BLOCK* Mar 19 14:46:26.536: **CSI\_PACKET(8913180)** *!--- The CSI option, which  
shows that the called number is 8913180, is !--- controlled by the fax receive called-subscriber  
configuration.*

Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=3

Mar 19 14:46:26.536: **DIS\_PACKET(speed: 5, resolution: 1, encoding:**

**1**

Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=4 *!--- Moved to substate  
RX\_DCS\_DTC\_BLOCK.* Mar 19 14:46:26.536: fax2\_response\_receive: PROCESSING Mar 19 14:46:29.452:  
t30 call4Leg=307, state=1, substate=4 Mar 19 14:46:29.452: fax2\_response\_receive: PROCESSING Mar  
19 14:46:29.476: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 19  
14:46:30.736: t30 call4Leg=307, state=1, substate=3 Mar 19 14:46:30.736: **CSI\_PACKET(8913180)**  
Mar 19 14:46:30.736: t30 call4Leg=307, state=1, substate=3  
Mar 19 14:46:30.736: **DIS\_PACKET(speed: 5, resolution: 1, encoding:**  
**1** *!--- speed=14400, resolution=, encoding=modified read* Mar 19 14:46:30.736: t30 call4Leg=307,  
state=1, substate=4 Mar 19 14:46:30.736: fax2\_response\_receive: PROCESSING Mar 19 14:46:31.100:  
t30 call4Leg=307, state=1, substate=4 Mar 19 14:46:31.100: fax2\_response\_receive: PROCESSING Mar  
19 14:46:31.100: msg dump:FF C0 C2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 1E 86 62 Mar 19  
14:46:31.100: Mar 19 14:46:31.100: t30 call4Leg=307, state=1, substate=4 Mar 19 14:46:31.100:  
**received: TSI remote id string: Fax**

Mar 19 14:46:31.100: t30 call4Leg=307, state=1, substate=4

Mar 19 14:46:31.100: fax2\_response\_receive: PROCESSING

Mar 19 14:46:31.532: t30 call4Leg=307, state=1, substate=4

Mar 19 14:46:31.532: fax2\_response\_receive: PROCESSING

Mar 19 14:46:31.532: msg dump:FF C8 C1 0 47 E

Mar 19 14:46:31.532:

Mar 19 14:46:31.532: t30 call4Leg=307, state=1, substate=4

Mar 19 14:46:31.532: fax2\_response\_receive: PROCESSING

Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=4

Mar 19 14:46:31.672: in response receive WAIT FOR CD

Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=9 *!--- The substate is changed to*

*RX\_TCF.* Mar 19 14:46:31.672: **received DCS\_PACKET, BR: 9,** *!--- BR=v.21 14400 resolution: 1,*

**encoding: 1, remote\_id\_string: Fax**

Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=10 *!--- The substate is changed to*

*WAIT\_FOR\_FDR.* Mar 19 14:46:31.672: wait for ready for data from application Mar 19 14:46:31.672:

t30 call4Leg=307, state=1, substate=12 *!--- The substate is changed to TX\_TCF\_RESPONSE.* Mar 19

14:46:31.672: **send CFR\_PACKET**

Mar 19 14:46:31.672: t30 call4Leg=307, state=1, substate=6 *!--- The substate is changed to*

*CONFIGURE\_RX\_DATA.* Mar 19 14:46:31.672: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not

expired Mar 19 14:46:36.472: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:36.472:

fax2\_configure\_rx\_data: **DETECTED\_DATA**

Mar 19 14:46:36.472: t30 call4Leg=307, state=2, substate=43 *!--- state = PHASE\_C\_RECEIVE,*

*substate=RX\_FIRST\_DATA\_BYTE - starting to RX page data...* Mar 19 14:46:36.472: No data yet Mar

19 14:46:43.872: t30 call4Leg=307, state=2, substate=14 *!--- The substate is changed to RX\_DATA.*

Mar 19 14:46:43.872: **end of page**

Mar 19 14:46:43.872: t30 call4Leg=307, state=1, substate=6 *!--- The substate is changed to*

*CONFIGURE\_RX\_DATA.* Mar 19 14:46:43.872: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not

expired Mar 19 14:46:43.872: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:43.872:

fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:44.140: t30

call4Leg=307, state=1, substate=6 Mar 19 14:46:44.140: fax2\_configure\_rx\_data: DETECTED\_COMMAND

Mar 19 14:46:44.140: t30 call4Leg=307, state=1, substate=7 *!--- The substate is changed to*

*RX\_COMMAND.* Mar 19 14:46:44.140: fax2\_command\_receive: NO\_COMMAND, T2 timer not expired Mar 19

14:46:45.200: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:45.200: fax2\_command\_receive:

PROCESSING Mar 19 14:46:45.200: msg dump:FF C8 F2 Mar 19 14:46:45.200: Mar 19 14:46:45.200: t30

call4Leg=307, state=1, substate=7 Mar 19 14:46:45.200: fax2\_command\_receive: PROCESSING Mar 19 14:46:45.352: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:45.352: fax2\_command\_receive: RECEIVED\_COMMAND Mar 19 14:46:45.352: t30 call4Leg=307, state=3, substate=8 *!--- The substate is changed to ROUTE\_COMMAND.* Mar 19 14:46:45.352: **received MPS** *!--- Received Multipage Signal.* Mar 19 14:46:45.352: t30 call4Leg=307, state=3, substate=10 *!--- The substate is changed to WAIT\_FOR\_FDR.* Mar 19 14:46:45.352: waiting for page acceptance by the application Mar 19 14:46:45.352: t30 call4Leg=307, state=3, substate=17 *!--- The substate is changed to SCHEDULE\_PP\_RESPONSE.* Mar 19 14:46:45.352: **send MCF** *!--- Send a Message Confirmation.* Mar 19 14:46:45.352: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:45.352: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:47.172: t30 call4Leg=307, state=1, substate=6

*!--- Now this must be done again, starting from the page data, because two pages !--- are being sent.* Mar 19 14:46:47.172: fax2\_configure\_rx\_data: DETECTED\_DATA Mar 19 14:46:47.172: t30 call4Leg=307, state=2, substate=43 *!--- state = PHASE\_C\_RECEIVE, substate=RX\_FIRST\_DATA\_BYTE - starting to RX page data...* Mar 19 14:46:47.172: No data yet Mar 19 14:46:56.212: t30 call4Leg=307, state=2, substate=14 *!--- The substate is changed to RX\_DATA.* Mar 19 14:46:56.212: end of page Mar 19 14:46:56.212: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.212: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:56.212: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.212: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:56.512: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:56.512: fax2\_configure\_rx\_data: DETECTED\_COMMAND Mar 19 14:46:56.512: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:56.512: fax2\_command\_receive: NO\_COMMAND, T2 timer not expired Mar 19 14:46:57.552: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.552: fax2\_command\_receive: PROCESSING Mar 19 14:46:57.552: msg dump:FF C8 F4 Mar 19 14:46:57.552: Mar 19 14:46:57.552: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.552: fax2\_command\_receive: PROCESSING Mar 19 14:46:57.700: t30 call4Leg=307, state=1, substate=7 Mar 19 14:46:57.700: fax2\_command\_receive: RECEIVED\_COMMAND Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=8 Mar 19 14:46:57.700: **received EOP** *!--- Received End of Procedure.* Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=10 Mar 19 14:46:57.700: waiting for page acceptance by the application Mar 19 14:46:57.700: t30 call4Leg=307, state=3, substate=17 Mar 19 14:46:57.700: **send MCF** *!--- Send a Message Confirmation.* Mar 19 14:46:57.700: t30 call4Leg=307, state=1, substate=6 Mar 19 14:46:57.704: fax2\_configure\_rx\_data: STILL\_LOOKING, T2 timer not expired Mar 19 14:46:58.140: t30 call4Leg=307, state=0, substate=6 *!--- state=PHASE\_IDLE* Mar 19 14:46:58.140: fax session aborted by application Mar 19 14:47:02.188: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds vdt1-5300-7a#

vdt1-5300-7a# **debug fax relay t30 called-number 8913144**

Debugging fax relay t30 to 8913144

vdt1-5300-7a#

Mar 19 14:40:19.134: 0:D:302 1205778176 fr-entered (10ms)  
Mar 19 14:40:22.498: 0:D:302 1205781540 fr-msg-tx **CSI**  
Mar 19 14:40:23.826: 0:D:302 1205782870 fr-msg-tx **DIS**  
Mar 19 14:40:25.070: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510  
Mar 19 14:40:26.146: 0:D:302 1205785190 fr-msg-det **TSI**  
Mar 19 14:40:27.026: 0:D:302 1205786070 fr-msg-det **DCS**  
Mar 19 14:40:30.558: 0:D:302 1205789600 fr-msg-tx **CFR**  
Mar 19 14:40:40.766: 0:D:302 1205799810 fr-msg-det **MPS**  
Mar 19 14:40:41.266: 0:D:302 1205800310 fr-msg-tx **MCF**  
Mar 19 14:40:53.098: 0:D:302 1205812140 fr-msg-det **EOP**  
Mar 19 14:40:53.598: 0:D:302 1205812640 fr-msg-tx **MCF**  
Mar 19 14:40:56.390: 0:D:302 1205815430 fr-msg-det **DCN**  
Mar 19 14:40:57.682: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds  
Mar 19 14:40:58.518: 0:D:302 1205817560 fr-end-dcn

**fr-msg-tx** indicates T.30 messages that are transmitted by the router

**fr-msg-det** indicates T.30 messages that are received by the router

詳細については、『[ファクスリレートラブルシューティングガイド](#)』を参照してください。



## show コマンド

```
vd1-5300-7a# 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> rt:<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
```

## 関連情報

- [T.37 オフランプ ファクシミリ](#)
- [Fax Over IP T.37 ファクスの保存と転送](#)
- [音声に関する技術サポート](#)
- [音声とユニファイド コミュニケーションに関する製品サポート](#)
- [Cisco IP Telephony のトラブルシューティング](#)
- [テクニカルサポート - Cisco Systems](#)