

T.37 オンランプ ファクシミリ

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概要

『[Fax over IP T.37 ストア アンド フォワード ファクス](#)』メインドキュメントのこのセクションでは、オンランプ ストア アンド フォワード ファクス送信について説明します。オンランプ T.37 は、ファクス コールを受け入れ、そのファクスを Tagged Image File Format (TIFF) に符号化し、その TIFF を添付ファイルとして、E メール サーバへ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たものです。このドキュメントで使用するすべてのデバイスは、クリアな（デフォルト）設定で作業を開始しています。ネットワークが稼働中の場合は、コマンドが及ぼす潜在的な影響を十分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。

設定

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

設定パラメータ

必須パラメータ :	
fax interface-type fax-mail	ゲートウェイの T.37 機能を有効にします。5300 でレポートが必要ですが、5350 または 5400 では必要ありません。
mta send server	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、「 サーバが設定されていない 」セクションを参照してください。
mta send postmaster	このアドレスは、 mta sent mail-from オプションが評価されないか、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、 mta send mail-from

	<p>username と mta send mail-from hostname が存在する場合オプションです。失敗したコールの debug mspi については、ここをクリックしてください。</p>
<p>ip domain-name</p>	<p>hostname.domain-name 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>
<p>call application voice onramp flash:app_libretto_onramp.2_0.1.1.tcl</p>	<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>
<p>dial-peer voice 8913180 pots application onramp</p>	<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>
<p>dial-peer voice 1 mmoip application fax_on_vfc_onramp_app out-bound</p>	<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。show call application voice summary を通じて確認できます。</p>
<p>オプション パラメータ :</p>	
<p>mta send mail-from hostname</p>	<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。mta send postmaster コマンドが存在しない場合、必須です。mta send mail-from username を使用する場合、設定する必要があります。</p>
<p>mta send mail-from username</p>	<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、つまり username@hostname を取得するために、mta send mail-from hostname とともに使用されます。mta send postmaster コマンドが存在しない場合、必</p>

	<p>須です。 mta send mail-from hostname を使用する 場合、設定する必要があります。</p>
<p>mta send subject</p>	<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>
<p>mta send with-subject</p>	<ul style="list-style-type: none"> • キーワード \$s\$ を含む 発信者番号を追加しま す。 • キーワード \$d\$ を含む 着信者番号を追加しま す。 • キーワード both を含む の発信者番号と着信者 番号の両方を追加しま す。 <p>デバッグの表示については 、ここをクリックしてくだ さい。</p>
<p>mta send return-receipt-to</p>	<p>キーワードは、username と hostname です。 同時に 、 disposition-notification-to: username@hostname を生 成します。</p>
<p>dial-peer voice number mmpoip mdn</p>	<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 mta send return-receipt-to 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>
<p>dial-peer voice number mmpoip dsn {delay success failure}</p>	<p>Delivery Status Notice (DSN) が mta send mail-from コマンドによつて 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

```

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 vdl-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 vdl-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 vdl-5300-7a#

```

オプション設定

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 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 </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 andy@testlab-t37.com または bobby@testlab-t37.com のいずれかに送信されます。</p>
---	---

called-number 891314[4-5] direct-inward-dial port 0:D !	
---	--

例 2 :

! dial-peer voice 1 mmoip application fax_on_vfc_onram p_app out-bound destination- pattern 8913144 information-type fax session target mailto:\$d@testlab-t37.com !	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:<FAX=8913144@testlab-t37.com>
--	--

注: 電子メールエイリアスが 8913144@domain.com ではなく FAX= 8913144@domain.com になっているか、または電子メールが正しく配信されないことを確認します。

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、デバッグ上に注記されます。

```
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 コマンドのように設定から除外されます。

```
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 vdtl-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。

```
vdtl-5300-7a# debug mta send all Mar 5 16:48:46.420: esmtp_client_engine_open: from=FAX=@,
to=andy@testlab-t37.com Mar 5 16:48:46.420: esmtp_client_engine_add_headers: from_comment=Fax
Mar 5 16:48:46.792: esmtp_client_work: socket 0 attempting to connect to IP address
172.18.106.36 Mar 5 16:48:46.792: esmtp_client_work: socket 0 readable for first time Mar 5
16:48:46.792: esmtp_client_work: socket 0 readable for first time Mar 5 16:48:46.796: (C)R: 220
testlab-smtp.testlab-t37.com Microsoft ESMTP MAIL Service, Version: 5.0.2195.4453 ready at Tue,
5 Mar 2002 16:48:12 -0500 !--- This is the SMTP server information displayed with the login. Mar
5 16:48:46.796: (C)S: EHLO vdtl-5300-7a.testlab-t37.com Mar 5 16:48:47.208: (C)R: 250-testlab-
smtp.testlab-t37.com Hello [15.80.7.11] !--- All the responses through the R: 250 OK are in
response to the EHLO command from !--- the sender (the 5300). These are the capabilities of the
receiver. Mar 5 16:48:47.208: (C)R: 250-TURN Mar 5 16:48:47.208: (C)R: 250-ATRN Mar 5
16:48:47.208: (C)R: 250-SIZE Mar 5 16:48:47.208: (C)R: 250-ETRN Mar 5 16:48:47.212: (C)R: 250-
PIPELINING Mar 5 16:48:47.212: (C)R: 250-DSN Mar 5 16:48:47.212: (C)R: 250-ENHANCEDSTATUSCODES
Mar 5 16:48:47.212: (C)R: 250-8bitmime Mar 5 16:48:47.212: (C)R: 250-BINARYMIME Mar 5
16:48:47.212: (C)R: 250-CHUNKING Mar 5 16:48:47.212: (C)R: 250-VERFY Mar 5 16:48:47.212: (C)R:
250-X-EXPS GSSAPI NTLM LOGIN Mar 5 16:48:47.212: (C)R: 250-X-EXPS=LOGIN Mar 5 16:48:47.212:
(C)R: 250-AUTH GSSAPI NTLM LOGIN Mar 5 16:48:47.212: (C)R: 250-AUTH=LOGIN Mar 5 16:48:47.212:
(C)R: 250-X-LINK2STATE Mar 5 16:48:47.212: (C)R: 250-XEXCH50 Mar 5 16:48:47.212: (C)R: 250 OK
Mar 5 16:48:47.212: (C)S: MAIL FROM:<FAX=@> !--- This is the mail from command. Mar 5
16:48:47.708: (C)R: 501 5.5.4 Invalid Address !--- The server does not like the address. Mar 5
16:48:47.708: esmtp_client_work: error in response to MAIL FROM !--- This tells exactly where
the problem occurred in the SMTP exchange. Mar 5 16:48:47.708: esmtp_client_work: ERROR, socket=0
Mar 5 16:49:15.132: %MSPI-4-MSPI_NO_SMTP_SEND: MSPI- Could not send data to the SMTP server,
cid=96, mspi_on_xmit, lost connection Mar 5 16:49:15.132: %LAPP_ON_MSGS-6-
LAPP_ON_CAUSE_NO_ESMTP_CONNECT: ESMTP client did not connect or lost connection to remote server
Mar 5 16:49:15.208: esmtp_client_work: Freeing ctx=0x62616C4C Mar 5 16:49:15.208: esmtp_client:
returned from work, context freed
```

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 $$
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、MS Exchange サーバに完全修飾ドメイン名 (FQDN) を送信していないため、構文どおり動作しません。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:
esmtplib_client_engine_open: from=testing@vdtl-5300-7a.testlab-t37.com, to=andy@testlab-t37.com Mar
28 09:55:17.940: esmtplib_client_engine_add_headers: from_comment=mspi Test User Mar 28
09:55:18.072: esmtplib_client_work: socket 0 attempting to connect to IP address 172.18.106.36 Mar
28 09:55:18.072: esmtplib_client_work: socket 0 readable for first time Mar 28 09:55:18.072:
esmtplib_client_work: socket 0 readable for first time Mar 28 09:55:18.076: (C)R: 220 testlab-
smtp.testlab-t37.com Microsoft ESMTMP MAIL Service, Version: 5.0.2195.4453 ready at Thu, 28 Mar
2002 09:54:02 -0500 Mar 28 09:55:18.076: (C)S: EHLO vdtl-5300-7a. !--- The Exchange server does
not like the trailing dot (.). Mar 28 09:55:18.484: (C)R: 501 5.5.4 Invalid Address Mar 28
09:55:18.484: esmtplib_client_work: EHLO failed; will try sending HELO Mar 28 09:55:18.484: (C)S:
HELO vdtl-5300-7a. Mar 28 09:55:18.984: (C)R: 501 5.5.4 Invalid Address Mar 28 09:55:18.984:
esmtplib_client_work: error in response to HELO Mar 28 09:55:18.984: esmtplib_client_work: ERROR,
socket=0 Mar 28 09:55:18.984: esmtplib_client_work: Freeing ctx=0x62661F18 Mar 28 09:55:18.988:
esmtplib_client: returned from work, context freed vdtl-5300-7a#
```

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 FMOSP... 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 FMOSP are conferenced Mar 18 10:57:51.003:
lapp_on_conference_created: Wait for FMOSP call detail event Mar 18 10:57:51.003:
lapp_on_change_state: old state(1) new state(2) !--- VTSP_FMOSP_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 FMOSP Mar 18
10:57:59.139: lapp_on_setup_mspi: Prep MSPI ccCallSetupRequest... Mar 18 10:57:59.139:
lapp_on_setup_mspi: Envelope from: FAX=8915510@vdtl-5300-7a.testlab-t37.com Mar 18 10:57:59.139:
lapp_on_setup_mspi: Envelope to: FAX=8913144@testlab-t37.com Mar 18 10:57:59.139:
lapp_on_setup_mspi: rfc822_to_comment: 8913144 Mar 18 10:57:59.139: lapp_on_setup_mspi: Faxmail
subject: Fax from On-Ramp GW vdtl-5300-7a [DNIS=8913144][ANI=8915510] Mar 18 10:57:59.139:
lapp_on_setup_mspi: Disposition notification to: admin@testlab-t37.com !--- A read receipt is
sent to admin@testlab-t37.com if the reader so chooses. Mar 18 10:57:59.139: lapp_on_setup_mspi:
Originator's TSI = rfc822_from_comment = Fax Mar 18 10:57:59.139: lapp_on_setup_mspi:
Auth/Account ID = 0 Mar 18 10:57:59.139: lapp_on_setup_mspi: Do ccCallSetupRequest to MSPI Mar
18 10:57:59.139: lapp_on_conference_fmosp_dmosp: Starting conference with FMOSP and DMOSP Mar 18
10:57:59.139: lapp_on_conference_fmosp_dmosp: tiff file created = 2002:03:18 10:57:59 Mar 18
10:57:59.139: lapp_on_change_state: old state(2) new state(3) !--- FMOSP_CALL_DETAIL to
FMOSP_DMOSP_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 FMOSP and the DMOSP are
conferenced Mar 18 10:57:59.139: lapp_on_conference_created: Sending
```


CC_EV_TO_FMSP_ON_RECEIVE_ENABLE to FMSP Mar 18 10:57:59.139: lapp_on_change_state: old state(3)
new state(4) *!---* *FMSP_DMSP_CONFERENCING to FMSP_PAGE_ACCEPT_REQUESTED* Mar 18 10:58:00.139:
lapp_on_application: Incoming Event: (8 = CC_EV_CALL_CONNECTED), CID(218), DISP(0) Mar 18
10:58:00.139: lapp_on_application: Current call state = 4 Mar 18 10:58:00.139:
lapp_on_call_connected: **Call connected event received.... - CID(218)** Mar 18 10:58:00.139:
lapp_on_call_connected: MSPI call connected - CID(218) Mar 18 10:58:00.139:
lapp_on_call_connected: Start conferencing the DMSP and the MSPI Mar 18 10:58:00.139:
lapp_on_application: Incoming Event: (29 = CC_EV_CONF_CREATE_DONE), CID(219), DISP(0) Mar 18
10:58:00.139: lapp_on_application: Current call state = 4 Mar 18 10:58:11.539:
lapp_on_application: Incoming Event: (36 = CC_EV_FROM_FMSP_ON_PAGE_ACCEPT_REQUESTED), CID(217),
DISP(0) Mar 18 10:58:11.539: lapp_on_application: Current call state = 4 Mar 18 10:58:11.539:
lapp_on_msp_event: **Page accept request arrived from fmosp** Mar 18 10:58:11.539: lapp_on_msp_event:
Sending page accept event to the FMSP Mar 18 10:58:11.539: lapp_on_msp_event: **Pages processed =**
1 *!---* *The first fax page is received.* Mar 18 10:58:11.539: lapp_on_change_state: old state(4)
new state(4) Mar 18 10:58:16.015: lapp_on_application: Incoming Event: (37 =
CC_EV_FROM_DMSP_ON_PAGE_PROCESSED), CID(219), DISP(146) Mar 18 10:58:16.015:
lapp_on_application: Current call state = 4 Mar 18 10:58:16.015: lapp_on_msp_event: Page
processed event arrived from the DMSP Mar 18 10:58:16.015: lapp_on_change_state: old state(4)
new state(4) Mar 18 10:58:30.719: lapp_on_application: Incoming Event: (36 =
CC_EV_FROM_FMSP_ON_PAGE_ACCEPT_REQUESTED), CID(217), DISP(0) Mar 18 10:58:30.719:
lapp_on_application: Current call state = 4 Mar 18 10:58:30.719: lapp_on_msp_event: **Page accept**
request arrived from fmosp Mar 18 10:58:30.719: lapp_on_msp_event: **Sending page accept event to**
the FMSP Mar 18 10:58:30.719: lapp_on_msp_event: **Pages processed = 2** *!---* *The second fax page is*
received. Mar 18 10:58:30.719: lapp_on_change_state: old state(4) new state(4) Mar 18
10:58:32.199: lapp_on_application: Incoming Event: (37 = CC_EV_FROM_DMSP_ON_PAGE_PROCESSED),
CID(219), DISP(0) Mar 18 10:58:32.199: lapp_on_application: Current call state = 4 Mar 18
10:58:32.199: lapp_on_msp_event: Page processed event arrived from the DMSP Mar 18 10:58:32.199:
lapp_on_change_state: old state(4) new state(4) Mar 18 10:58:34.355: lapp_on_application:
Incoming Event: (11 = CC_EV_CALL_DISCONNECTED), CID(218), DISP(0) Mar 18 10:58:34.355:
lapp_on_application: Current call state = 4 Mar 18 10:58:34.355: lapp_on_call_disconnected: Call
Disconnected - CID= 218 cause= 0x10 call_state= 4 Mar 18 10:58:34.355:
lapp_on_call_disconnected: MSPI disconnected Mar 18 10:58:34.355: lapp_on_call_disconnected:
Faxmail acknowledged by remote SMTP server Mar 18 10:58:34.355: lapp_on_change_state: old
state(4) new state(7) *!---* *FMSP_PAGE_ACCEPT_REQUESTED to CONFERENCE_DESTROYING* Mar 18
10:58:34.355: lapp_on_conference_cleanup: Destroying conferences... Mar 18 10:58:34.355:
lapp_on_conference_cleanup: **Destroying conference for VTSP & FMSP** Mar 18 10:58:34.355:
lapp_on_conference_cleanup: **Destroying conference for FMSP & DMSP** Mar 18 10:58:34.355:
lapp_on_conference_cleanup: **Destroying conference for DMSP & MSPI** Mar 18 10:58:34.355:
lapp_on_application: Incoming Event: (30 = CC_EV_CONF_DESTROY_DONE), CID(217), DISP(0) Mar 18
10:58:34.355: lapp_on_application: Current call state = 7 Mar 18 10:58:34.355:
lapp_on_conference_destroyed: FMSP/DMSP conference destroyed Mar 18 10:58:34.355:
lapp_on_conference_destroyed: Conference destroyed.... confID = 150 Mar 18 10:58:34.355:
lapp_on_application: Incoming Event: (30 = CC_EV_CONF_DESTROY_DONE), CID(219), DISP(0) Mar 18
10:58:34.355: lapp_on_application: Current call state = 7 Mar 18 10:58:34.355:
lapp_on_conference_destroyed: DMSP/MSPI conference destroyed Mar 18 10:58:34.355:
lapp_on_conference_destroyed: Conference destroyed.... confID = 151 Mar 18 10:58:34.355:
lapp_on_application: Incoming Event: (30 = CC_EV_CONF_DESTROY_DONE), CID(216), DISP(0) Mar 18
10:58:34.355: lapp_on_application: Current call state = 7 Mar 18 10:58:34.355:
lapp_on_conference_destroyed: VTSP/FMSP conference destroyed Mar 18 10:58:34.355:
lapp_on_conference_destroyed: Conference destroyed.... confID = 149 Mar 18 10:58:34.355:
lapp_on_change_state: old state(7) new state(8) *!---* *CONFERENCE_DESTROYING to DISCONNECTING* Mar
18 10:58:34.355: lapp_on_conference_destroyed: All conferences are destroyed. Mar 18
10:58:34.355: lapp_on_change_state: old state(8) new state(8) Mar 18 10:58:34.355:
lapp_on_call_leg_cleanup: Sending disconnect for FMSP Mar 18 10:58:34.359:
lapp_on_call_leg_cleanup: Sending disconnect for DMSP Mar 18 10:58:34.359: lapp_on_application:
Incoming Event: (12 = CC_EV_CALL_DISCONNECT_DONE), CID(219), DISP(0) Mar 18 10:58:34.359:
lapp_on_application: Current call state = 8 Mar 18 10:58:34.359: lapp_on_disconnect_done:
Received call disconnect done ... callID = 219 Mar 18 10:58:34.359: lapp_on_disconnect_done:
DMSP disconnect done Mar 18 10:58:34.359: lapp_on_disconnect_done: Sending disconnect for MSPI
Mar 18 10:58:34.359: lapp_on_application: Incoming Event: (12 = CC_EV_CALL_DISCONNECT_DONE),
CID(218), DISP(0) Mar 18 10:58:34.359: lapp_on_application: Current call state = 8 Mar 18
10:58:34.359: lapp_on_disconnect_done: Received call disconnect done ... callID = 218 Mar 18
10:58:34.359: lapp_on_disconnect_done: MSPI disconnect done Mar 18 10:58:34.363:
lapp_on_application: Incoming Event: (12 = CC_EV_CALL_DISCONNECT_DONE), CID(217), DISP(0) Mar 18

10:58:34.363: lapp_on_application: Current call state = 8 Mar 18 10:58:34.363:
lapp_on_disconnect_done: Received call disconnect done ... callID = 217 Mar 18 10:58:34.363:
lapp_on_disconnect_done: FMSP disconnect done Mar 18 10:58:34.363: lapp_on_disconnect_done:
Sending disconnect for VTSP Mar 18 10:58:36.627: %ISDN-6-DISCONNECT: Interface Serial0:18
disconnected from 8915510 , call lasted 45 seconds Mar 18 10:58:37.647: lapp_on_application:
Incoming Event: (28 = CC_EV_CALL_FEATURE), CID(216), DISP(0) Mar 18 10:58:37.647:
lapp_on_application: Current call state = 8 Mar 18 10:58:37.647: lapp_on_event_unsupported:
Unsupported event received--- Mar 18 10:58:37.647: lapp_on_event_unsupported:
EV(28=CC_EV_CALL_FEATURE), CID(216), disp(0) Mar 18 10:58:37.647: lapp_on_event_unsupported:
Current call state = 8 Mar 18 10:58:37.651: lapp_on_application: Incoming Event: (12 =
CC_EV_CALL_DISCONNECT_DONE), CID(216), DISP(0) Mar 18 10:58:37.651: lapp_on_application: Current
call state = 8 Mar 18 10:58:37.651: lapp_on_disconnect_done: **Received call disconnect done ...
callID = 216** Mar 18 10:58:37.651: lapp_on_disconnect_done: **VTSP disconnect done** Mar 18
10:58:37.651: lapp_on_disconnect_done: All the calls are now void or disconnected Mar 18
10:58:37.651: lapp_on_change_state: old state(8) new state(9) **!--- DISCONNECTING to TERMINAL** Mar
18 10:58:37.651: lapp_on_call_terminate: Freeing the IVR call handoff record Mar 18
10:58:37.655: lapp_on_call_terminate: Freeing the fax call record vdtl-5300-7a#

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。

vdtl-5300-7a# **debug mta send all** All email send debugging is on vdtl-5300-7a# Mar 18
14:50:46.278: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 18
14:50:48.474: esmtp_client_engine_open: from=FAX=8915510@vdtl-5300-7a.testlab-t37.com,
to=FAX=8913144@testlab-t37.com Mar 18 14:50:48.474: esmtp_client_engine_add_headers:
from_comment=Fax Mar 18 14:50:48.702: esmtp_client_work: socket 0 attempting to connect to IP
address 172.18.106.36 Mar 18 14:50:48.702: esmtp_client_work: socket 0 readable for first time
Mar 18 14:50:48.702: esmtp_client_work: socket 0 readable for first time Mar 18 14:50:48.706:
(C)R: 220 testlab-smtp.testlab-t37.com Microsoft ESMTP MAIL Service, Version: 5.0.2195.4453
ready at Mon, 18 Mar 2002 14:49:51 -0500 Mar 18 14:50:48.706: (C)S: **EHLO vdtl-5300-7a.testlab-
t37.com** Mar 18 14:50:49.166: (C)R: **250-testlab-smtp.testlab-t37.com Hello [15.80.7.11]** Mar 18
14:50:49.166: (C)R: 250-TURN Mar 18 14:50:49.170: (C)R: 250-ATRN Mar 18 14:50:49.170: (C)R: 250-
SIZE Mar 18 14:50:49.170: (C)R: 250-ETRN Mar 18 14:50:49.170: (C)R: 250-PIPELINING Mar 18
14:50:49.170: (C)R: 250-DSN Mar 18 14:50:49.170: (C)R: 250-ENHANCEDSTATUSCODES Mar 18
14:50:49.170: (C)R: 250-8bitmime Mar 18 14:50:49.170: (C)R: 250-BINARYMIME Mar 18 14:50:49.170:
(C)R: 250-CHUNKING Mar 18 14:50:49.170: (C)R: 250-VERFY Mar 18 14:50:49.170: (C)R: 250-X-EXPS
GSSAPI NTLM LOGIN Mar 18 14:50:49.170: (C)R: 250-X-EXPS=LOGIN Mar 18 14:50:49.170: (C)R: 250-
AUTH GSSAPI NTLM LOGIN Mar 18 14:50:49.170: (C)R: 250-AUTH=LOGIN Mar 18 14:50:49.170: (C)R: 250-
X-LINK2STATE Mar 18 14:50:49.170: (C)R: 250-XEXCH50 Mar 18 14:50:49.170: (C)R: 250 OK Mar 18
14:50:49.170: (C)S: **MAIL FROM:<FAX=8915510@vdtl-5300-7a.testlab-t37.com> RET=HDRS** Mar 18
14:50:49.666: (C)R: 250 2.1.0 FAX=8915510@vdtl-5300-7a.testlab-t37.com...Sender OK Mar 18
14:50:49.666: (C)S: **RCPT TO:<FAX=8913144@testlab-t37.com> NOTIFY=SUCCESS,FAILURE**
ORCPT=rfc822;FAX+3D8915510@vdtl-5300-7a.testlab-t37.com Mar 18 14:50:50.170: (C)R: 250 2.1.5
FAX=8913144@testlab-t37.com Mar 18 14:50:50.698: (C)R: **354 Start mail input; end with
<CRLF>.<CRLF>** Mar 18 14:50:50.698: (C)S: Received: by vdtl-5300-7a.testlab-t37.com for
<FAX=8913144@testlab-t37.com> (with Cisco NetWorks); Mon, 18 Mar 2002 14:50:50 -0500 Mar 18
14:50:50.698: (C)S: To: "8913144" <FAX=8913144@testlab-t37.com> Mar 18 14:50:50.698: (C)S:
Message-ID: <008C2002145050698@vdtl-5300-7a.testlab-t37.com> Mar 18 14:50:50.702: (C)S: Date:
Mon, 18 Mar 2002 14:50:50 -0500 Mar 18 14:50:50.702: (C)S: Subject: Fax from On-Ramp GW vdtl-
5300-7a[DNIS=8913144] [ANI=8915510] Mar 18 14:50:50.702: (C)S: X-Mailer: IOS (tm) 5300 Software
(C5300-IS-M) Mar 18 14:50:50.702: (C)S: Disposition-Notification-To: admin@testlab-t37.com Mar
18 14:50:50.702: (C)S: MIME-Version: 1.0 Mar 18 14:50:50.702: (C)S: Content-Type: multipart/fax-
message; Mar 18 14:50:50.702: (C)S: boundary="yradnuoB=_008B2002145048474.vdtl-5300-7atestlab-
t37.com" Mar 18 14:50:50.702: (C)S: From: "Fax " <FAX=8915510@vdtl-5300-7a.testlab-t37.com> Mar
18 14:50:50.702: (C)S: X-Account-Id: 0 Mar 18 14:51:05.702: (C)S: --
yradnuoB=_008B2002145048474.vdtl-5300-7atestlab-t37.com Mar 18 14:51:05.702: (C)S: Content-ID:
<008D2002145105702@vdtl-5300-7a.testlab-t37.com> Mar 18 14:51:05.702: (C)S: Content-Type:
image/tiff; application=faxbw Mar 18 14:51:05.702: (C)S: Content-Transfer-Encoding: base64 Mar
18 14:51:05.706: esmtp_client_work: writing lingering data for socket 0 Mar 18 14:51:05.714:
esmtp_client_work: writing lingering data for socket 0 Mar 18 14:51:14.726: esmtp_client_work:

```
writing lingering data for socket 0 Mar 18 14:51:14.734: esmtp_client_work: writing lingering
data for socket 0 Mar 18 14:51:14.738: (C)S: --yradnuoB=_008B2002145048474.vdctl-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@vdctl-5300-7a.testlab-t37.com> Queued mail for
delivery Mar 18 14:51:14.986: (C)S: QUIT Mar 18 14:51:15.406: (C)R: 221 2.0.0 testlab-
smtp.testlab-t37.com Service closing transmission channel Mar 18 14:51:15.406:
esmtp_client_work: Freeing ctx=0x6266946C Mar 18 14:51:15.406: esmtp_client: returned from work,
context freed Mar 18 14:51:18.938: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from
8915510 , call lasted 38 seconds vdctl-5300-7a# vdctl-5300-7a# debug dmsp fax-to-doc Doc MSP fax to
doc debugging is on vdctl-5300-7a# Mar 18 14:53:03.338: %ISDN-6-CONNECT: Interface Serial0:18 is
now connected to 8915510 Mar 18 14:53:05.530: docmsp_call_setup_request: callid=227 Mar 18
14:53:05.530: docmsp_call_setup_request(): ramp data dir=ONRAMP, conf dir=DEST Mar 18
14:53:05.534: docmsp_caps_ind: call id=227, src=225 Mar 18 14:53:05.534: docmsp_bridge cfid=156,
srccid=227, dstcid=225 Mar 18 14:53:05.534: docmsp_bridge(): ramp data dir=ONRAMP, conf
dir=DEST, encode out=2 Mar 18 14:53:06.530: docmsp_bridge cfid=157, srccid=227, dstcid=226 Mar
18 14:53:06.530: docmsp_bridge(): ramp data dir=ONRAMP, conf dir=SRC, encode out=2 Mar 18
14:53:11.510: docmsp_xmit: call id src=225, dst=227 Mar 18 14:53:11.510:
docmsp_process_rcv_data: call id src=225, dst=227 Mar 18 14:53:12.350: docmsp_xmit: call id
src=225, dst=227 !--- Output suppressed. Mar 18 14:53:22.242: docmsp_process_rcv_data: call id
src=225, dst=227 Mar 18 14:53:22.242: docmsp_get_msp_event_buffer: Mar 18 14:53:23.082:
docmsp_xmit: call id src=225, dst=227 Mar 18 14:53:23.082: docmsp_process_rcv_data: call id
src=225, dst=227 Mar 18 14:53:23.922: docmsp_xmit: call id src=225, dst=227 !--- Output
suppressed. Mar 18 14:53:36.950: docmsp_process_rcv_data: call id src=225, dst=227 Mar 18
14:53:38.430: docmsp_xmit: call id src=225, dst=227 Mar 18 14:53:38.430:
docmsp_process_rcv_data: call id src=225, dst=227 Mar 18 14:53:38.434:
docmsp_get_msp_event_buffer: Mar 18 14:53:41.022: docmsp_bdrop cfid=156, srccid=227, dstcid=225
Mar 18 14:53:41.022: docmsp_bdrop cfid=157, srccid=227, dstcid=226 Mar 18 14:53:41.026:
docmsp_call_disconnect: callid=227 Mar 18 14:53:41.026: docmsp_do_call_history: call id=227 Mar
18 14:53:42.886: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 8915510 , call
lasted 45 seconds vdctl-5300-7a#
```

注: debug mmoip send email address コマンドは、画面に何も表示しませんが非常に便利です。このコマンドは、ルータを SMTP クライアントとして使用し、debug コマンドで指定されたアドレスに電子メール送信します。電子メールは、設定で定義された件名を使用し、「mspi テストユーザ」から送信されます。この電子メールには、「This is a test email message sent via Cisco Powered Libretto Faxmail.」という行を含むテキストの添付ファイルが付属します。

以下は、オンランプのファクス側に対するデバッグです。

```
vdctl-5300-7a# debug fmsp send t30 FMSP send t30 debugging is on vdctl-5300-7a# Mar 19
14:50:04.604: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:04.604: received flag of
modulation: 0 Mar 19 14:50:04.628: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to
8915510 Mar 19 14:50:06.252: msg dump:FF C0 C2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 1E 86 62 Mar 19
14:50:06.252: Mar 19 14:50:06.252: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:06.252:
received: TSI remote id string: Fax Mar 19 14:50:06.672: msg dump:FF C8 C1 0 47 E Mar 19
14:50:06.672: Mar 19 14:50:06.824: t30 call4Leg=311, state=1, substate=4 Mar 19 14:50:06.824: in
response receive WAIT FOR CD Mar 19 14:50:11.632: t30 call4Leg=311, state=1, substate=6 Mar 19
14:50:11.632: received flag of modulation: 8 Mar 19 14:50:19.304: t30 call4Leg=311, state=1,
substate=6 Mar 19 14:50:19.304: received flag of modulation: 0 Mar 19 14:50:20.364: msg dump:FF
C8 F2 Mar 19 14:50:20.364: Mar 19 14:50:22.324: t30 call4Leg=311, state=1, substate=6 Mar 19
14:50:22.324: received flag of modulation: 8 Mar 19 14:50:31.643: t30 call4Leg=311, state=1,
substate=6 Mar 19 14:50:31.643: received flag of modulation: 0 Mar 19 14:50:32.683: msg dump:FF
C8 F4 Mar 19 14:50:32.683: Mar 19 14:50:33.155: t30 call4Leg=311, state=0, substate=6 Mar 19
14:50:33.155: fax session aborted by application Mar 19 14:50:37.295: %ISDN-6-DISCONNECT:
Interface Serial0:18 disconnected from 8915510 , call lasted 38 seconds vdctl-5300-7a# vdctl-5300-
7a#debug fmsp receive t30 FMSP receive t30 debugging is on vdctl-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 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** 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

```
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
```

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](#)