

T.37 OnRamp س ك اف ل ا

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المقدمة

يصف هذا القسم من [الفاكس الرئيسي عبر IP T.37 store وإعادة توجيه](#) مستند [الفاكس](#) على بروتوكول OnRamp الفاكس وإعادة توجيهه. OnRamp T.37 هي عملية قبول مكالمة فاكس، وترميز ذلك الفاكس في تنسيق ملف صورة ذي علامات تمييز (TIFF)، وإرسال TIFF إلى خادم بريد إلكتروني كمرفق.

يحتوي هذا المستند على التكوين المطلوب لتشغيل الميزة. يتخطى قسم [استكشاف الأخطاء وإصلاحها](#) أوامر تصحيح الأخطاء المفيدة وكيفية تفسير معناها. ويتم عرض المخطط المستخدم في قسم [الرسم التخطيطي للشبكة](#).

المتطلبات الأساسية

المتطلبات

يتم تحديد المتطلبات المحددة لهذا المستند في القسم الرئيسي، [وإرسال الفاكس عبر متجر IP T.37 وإعادة توجيهه](#) [الفاكس](#).

المكونات المستخدمة

لا يقتصر هذا المستند على إصدارات برامج ومكونات مادية معينة.

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

الاصطلاحات

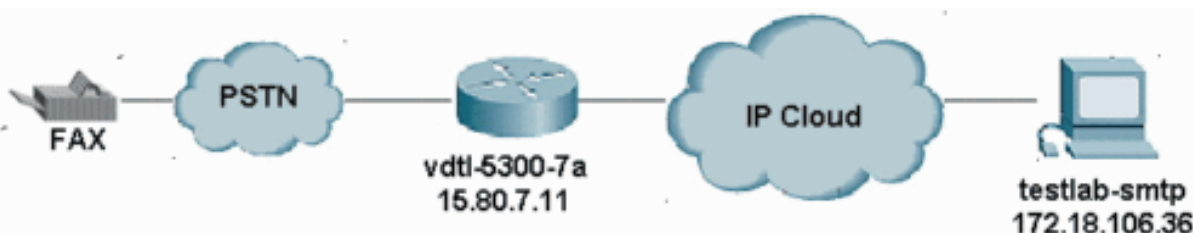
للحصول على مزيد من المعلومات حول اصطلاحات المستندات، ارجع إلى [اصطلاحات تلميحات Cisco التقنية](#).

التكوين

في الأقسام أدناه، يتم أولاً شرح معلمات تكوين برنامج Cisco IOS® Software ذات الصلة بتكوين الفاكس OnRamp، ومن ثم يتم عرض تكوين 5300 مع مزيد من الملاحظات التي توضح وظائف الأوامر الهامة. يمكن العثور على بعض معلمات التكوين الاختيارية في القسم الذي يتبع تكوين 5300.

الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة الموضح في الرسم التخطيطي أدناه.



معلومات التكوين

المعلومات الإلزامية:	
تمكين وظائف T.37 للعبارة. يتطلب إعادة تمهيد على الطراز 5300، ولكنه لا يتطلب الطراز 5350 أو 5400.	بريد فاكس نوع واجهة الفاكس
هذا هو اسم المضيف أو عنوان IP الخاص بخادم بروتوكول نقل البريد البسيط (SMTP) الذي سيقوم الموجه بإرسال البريد الإلكتروني على بروتوكول OnRamp من خلاله. بدون هذا التكوين، لا يعرف الموجه مكان إرسال البريد الإلكتروني على OnRamp. راجع قسم لا يوجد خادم تم تكوينه لتصحيح الأخطاء ورسائل وحدة التحكم بدون تكوين الخادم.	خادم إرسال MTA
يتم استخدام هذا العنوان إذا لم تقم خيارات إرسال بريد من خلال MTA بتقييم أو لم يتم تكوينها. يتم وضعها في بريد OnRamp الإلكتروني من الحقل. يكون هذا اختياريًا إذا كان إرسال بريد من اسم المستخدم وإرسال بريد من اسم المضيف موجودين. طقطقت هنا ل debug mspi ل فشل مكاملة.	MTA إرسال مدير البريد

يستخدم لتعريف مرسل البريد الإلكتروني في رسالة HELO باسم hostname.domain-name. يجب إعادة تحميل الموجه بعد تكوين هذا الأمر.	ip domain-name
يحدد اسما عموميا للتطبيق (على ramp، في هذه الحالة) وموقعه (في ذاكرة Flash الخاصة بالموجه، في هذه الحالة).	الاتصال بصوت التطبيق على ذاكرة الفلاش.: app_libretto_onramp_2.0.1.1.tcl
إستدعاء التطبيق على RAMP عند مطابقة نظير الطلب هذا.	تطبيق تطبيق OnRamp لصوت نظير الطلب POTS 8913180
التطبيق الذي سيتم استدعاؤه عند مطابقة نظير بريد الوسائط المتعددة عبر MMoIP (IP) هذا. يتم تجميعه مسبقا في برنامج Cisco IOS Software. مرئي من خلال ملخص صوت تطبيق العرض.	إرتباط تطبيق Dial-Peer Voice 1 mmoip fax_on_vfc_onramp_app للخارج
	المعلومات الاختيارية:
هذا هو اسم المضيف الذي سيتم إستخدامه في حقل من في البريد الإلكتروني على OnRamp. إلزامي إذا لم يكن الأمر mta send postmaster موجودا. يجب تكوينها إذا تم إستخدام إرسال بريد من اسم المستخدم.	إرسال بريد من اسم المضيف
هذا هو المنشئ الذي يجب إستخدامه في حقل من في البريد الإلكتروني على OnRamp. يستخدم بالاقتران مع MTA لإرسال بريد من اسم المضيف للحصول على حقل "من" بالكامل. أي، username@hostname. إلزامي إذا لم يكن الأمر mta send postmaster موجودا. يجب تكوينها إذا تم إستخدام إرسال بريد من اسم المضيف.	إرسال بريد من اسم المستخدم
السلسلة النصية التي سيتم إستخدامها في حقل الموضوع في البريد الإلكتروني على OnRamp.	موضوع إرسال MTA
• إلحاق رقم جهة الاتصال بالكلمة الأساسية \$\$\$. • إلحاق رقم الطرف الذي تم استدعاؤه بالكلمة الأساسية \$d\$. • إلحاق كل من رقم الطرف المستدعي والمسمى بالكلمة الأساسية كلا. لعرض تصحيح الأخطاء، انقر هنا .	إرسال مع موضوع

الكلمات الأساسية هي اسم المستخدم واسم المضيف. ويشكلون معا إخطار المصير النهائي إلى:username@hostname.	إرسال إصال الإرجاع إلى MTA
يطلب إرسال بريد إلكتروني مرسل من خلال نظير MOip هذا لطلب إعلام بمصير الرسائل (MDN) إلى الصيغة المحددة بواسطة الأمر -mta send-return-receive-to.	MMOIP MDN لرقم صوت الطلب-النظير
يطلب إرسال إشعار حالة تسليم (DSN) إلى الوجهة المعرفة بواسطة الأمر -mta send mail-from	Dial-Peer Voice number mmoiip dsn {delay نجاح الفشل}

تكوين OnRamp

```
vdt1-5300-7a# show running-config
...Building configuration
```

```
Current configuration : 2294 bytes
```

```
!
Last configuration change at 10:49:16 EST Mon Mar 18 2003 !
NVRAM config last updated at 11:00:42 EST Mon Mar 4 2003 !
```

```
!
version 12.2
```

```
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
no service password-encryption
```

```
!
hostname vdt1-5300-7a
```

```
!
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 $s
mta send return-receipt-to hostname testlab-t37.com
mta send return-receipt-to username admin
mta receive maximum-recipients 0
call-history-mib retain-timer 500
!
controller T1 0
framing esf
clock source line primary
linecode b8zs
pri-group timeslots 1-24
!
!
!
interface Ethernet0
ip address 15.80.7.11 255.255.255.0
!
interface Serial0:23
no ip address
isdn switch-type primary-5ess
isdn incoming-voice modem
no cdp enable
!
ip classless
ip route 0.0.0.0 0.0.0.0 15.80.7.1
no ip http server
ip pim bidir-enable
!
call rsvp-sync
!
call application voice onramp flash:app_libretto_onramp.2.0.1.1.tcl
This identifies the call application to use. It is named "onramp" in !--- this example. ---!
voice-port 0:D ! mgcp profile default ! dial-peer voice 1 mmoup application
fax_on_vfc_onramp_app out-bound destination-pattern 8913144 information-type fax session target
mailto:$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

```

التهينة الاختيارية

فيما يلي بعض معلمات التكوين الاختيارية. يوضح المثال الأول كيفية تكوين حسابات بريد إلكتروني متعددة باستخدام عناوين البريد الإلكتروني التقليدية، ويوضح المثال الثاني كيفية تكوين حسابات بريد إلكتروني متعددة باستخدام أرقام الأطراف المستدعى لعناوين البريد الإلكتروني.

مثال 1:

<p>في هذا التكوين، يحتوي PRI على رقمين للطلب الداخلي المباشر (DID): 891-3144 و 3145-891 ووفقاً للرقم المطلوب، يتم إرسال بريد إلكتروني إما إلى andy@testlab-t37.com أو إلى bobby@testlab-t37.com</p>	<pre> ! dial-peer voice 1 mmoip application fax_on_vfc_onramp_app out- bound destination-pattern 8913144 information-type fax session target mailto:andy@testlab- t37.com ! dial-peer voice 2 mmoip application fax_on_vfc_onramp_app out- bound destination-pattern 8913145 information-type fax session target mailto:bobby@testlab- t37.com ! dial-peer voice 891314 pots application onramp [incoming called-number 891314[4-5 direct-inward-dial port 0:D ! </pre>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

مثال 2:

<p>مع هذا التكوين، يتم إدراج خدمة التعرف على الرقم المطلوب (DNIS) (المسماة رقم الطرف) في الأمر RCPT إلى: SMTP. وهذا يسمح للعملاء بإعطاء كل مستخدم DID لتطبيقات OnRamp. إنهم ببساطة يضيفون اسماً مستعاراً على خادم البريد الإلكتروني. 12 آذار/مارس 15:42:12.947 C(S): RCPT إلى: <fax=8913144@testlab-t37.com></p>	<pre> ! 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 ! </pre>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

ملاحظة: تأكد من أن الاسم المستعار للبريد الإلكتروني هو FAX=8913144@domain.com بدلا من domain.com@8913144 أو أنه لن يتم تسليم البريد الإلكتروني بشكل صحيح.

استكشاف الأخطاء وإصلاحها

فشل تصحيح الأخطاء

ملاحظة: يتم ملاحظة تغييرات التكوين فوق تصحيح الأخطاء.

```
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
!
```

ملاحظة: يتم حذف الأمر mta send mail-from username من التكوين، كما هو الأمر mta send postmaster.

```
#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
ويمكن رؤية المشكلة نفسها بشكل أكثر وضوحا مع تصحيح الأخطاء هذا:
```

```
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

لم يتم تكوين أي خادم

fax receive called-subscriber 8913180
fax interface-type fax-mail
mta send subject Fax from On-Ramp GW vdt1-5300-7a
mta send postmaster administrator@testlab-t37.com
mta send mail-from hostname vdt1-5300-7a.testlab-t37.com
\$mta send mail-from username \$\$
mta receive maximum-recipients 0

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

تم تكوين الخادم ولكن لا يوجد مسار IP إلى الخادم

vdt1-5300-7a# debug mspi send
Mail SPI send debugging is on
#vdt1-5300-7a
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@vdt1-5300-7a.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

ملاحظة: لا يقوم الموجه بإرسال اسم مجال مؤهل بالكامل (FQDN) إلى خادم MS Exchange ولا يجب الصياغة. وذلك لأن الموجه يتطلب إعادة تحميل بعد إضافة مجال " 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

تصحيح الأخطاء العامل

يتم استخدام أوامر تصحيح الأخطاء هذه لجانب SMTP من 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_FMSP_CONFERENCING* Mar 18 10:57:51.003: lapp_on_application: Incoming Event: (29 =

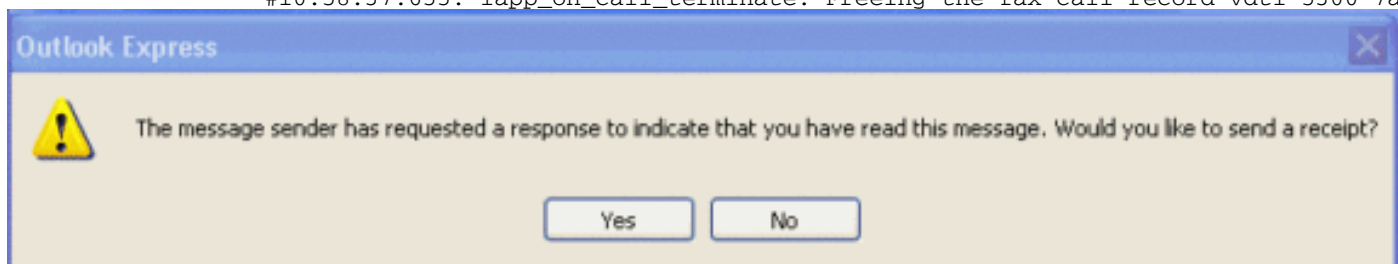
CC_EV_CONF_CREATE_DONE), CID(216), DISP(0) Mar 18 10:57:51.003: lapp_on_application: Current call state = 1 Mar 18 10:57:51.003: lapp_on_conference_created: **The VTSP and the FMSP are**

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_FMSP_CONFERENCING to FMSP_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_FMSP_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 (CC_EV_FROM_FMSP_ON_PAGE_ACCEPT_REQUESTED), CID(217), DISP(0 = 36) 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



يرى العميل الذي يتلقى البريد الإلكتروني نافذة مماثلة للنافذة المذكورة أعلاه عند فتح بريد إلكتروني باستخدام مجموعة MDN. وتكون الاستجابة التي يتلقاها الطالب في شكل بريد إلكتروني يرسل إلى المستخدم مع نص رسالة
نصه كما يلي: "هذا إيصال للبريد الإلكتروني الذي أرسلته إلى "8913144" <fax=8913144@testlab-t37.com>
في 2002/18/3 10:58am. يتحقق هذا الإيصال من عرض الرسالة على كمبيوتر المستلم في الساعة 2002/18/3

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-VRFY

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:
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@vdt1-5300-7a.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

#vdt1-5300-7a

vdt1-5300-7a# **debug dmsp fax-to-doc**

Doc MSP fax to doc debugging is on

#vdt1-5300-7a

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 vdt1-5300-7a

ملاحظة: لا يعرض الأمر **debug mmoip send email address** أي شيء على الشاشة نفسها، ولكنه مفيد جدا. وهو يستخدم الموجه كعميل SMTP لإرسال بريد إلكتروني إلى العنوان المحدد في الأمر **debug**. يحتوي البريد الإلكتروني على الموضوع المعرف في التكوين وهو من "mspi Test User". يحتوي على مرفق نصي مع السطر، "هذه رسالة بريد إلكتروني إختبار يتم إرسالها عبر Cisco Power Libretto Faxmail".

هذه تصحيح أخطاء لجانب الفاكس من OnRamp:

vdt1-5300-7a# **debug fmsp send t30**

Fmsp send t30 debugging is on

#vdt1-5300-7a

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
#vdt1-5300-7a

vdt1-5300-7a#**debug fmsp receive t30**
F MSP receive t30 debugging is on
#vdt1-5300-7a
Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=3 *!--- state=PHASE_B_RECEIVE
substate=TX_DIS_DTC_BLOCK* Mar 19 14:46:26.536: **CSI_PACKET(8913180)** *!--- The CSI option, which
shows that the called number is 8913180, is !--- controlled by the fax receive called-subscriber
.configuration*

Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=3
:Mar 19 14:46:26.536: **DIS_PACKET(speed: 5, resolution: 1, encoding
1**
Mar 19 14:46:26.536: t30 call4Leg=307, state=1, substate=4 *!--- Moved to substate
RX_DCS_DTC_BLOCK.* Mar 19 14:46:26.536: fax2_response_receive: PROCESSING Mar 19 14:46:29.452:
t30 call4Leg=307, state=1, substate=4 Mar 19 14:46:29.452: fax2_response_receive: PROCESSING Mar
19 14:46:29.476: %ISDN-6-CONNECT: Interface Serial0:18 is now connected to 8915510 Mar 19
(14:46:30.736: t30 call4Leg=307, state=1, substate=3 Mar 19 14:46:30.736: **CSI_PACKET(8913180**
Mar 19 14:46:30.736: t30 call4Leg=307, state=1, substate=3
:Mar 19 14:46:30.736: **DIS_PACKET(speed: 5, resolution: 1, encoding**
speed=14400, resolution=, encoding=modified read Mar 19 14:46:30.736: t30 call4Leg=307, ---! **1**
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 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

لمزيد من المعلومات، ارجع إلى [دليل أستكشاف أخطاء ترحيل الفاكس وإصلاحها](#).

إظهار الأوامر

```

vdt1-5300-7a# show call history fax brief
<ID>: <start>hs.<index> +<connect> +<disc> pid:<peer_id> <direction> <addr>
(<dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <disc-cause>(<text
<IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late
<delay:<last>/<min>/<max>ms <codec
<MODEMPASS <method> buf:<fills>/<drains> loss <overall%> <multipkt>/<corrected
last <buf event time>s dur:<Min>/<Max>s
<FR <protocol> [int dlci cid] vad:<y/n> dtmf:<y/n> seq:<y/n>
(codec) (payload size)
<ATM <protocol> [int vpi/vci cid] vad:<y/n> dtmf:<y/n> seq:<y/n>
(codec) (payload size)
Telephony <int>: tx:<tot>/<voice>/<fax>ms <codec> noise:<lvl>dBm acom:<lvl>dBm
<Proxy <ip>:<audio udp>,<video udp>,<tcp0>,<tcp1>,<tcp2>,<tcp3> endpt: <type>/<manf
<bw: <req>/<act> codec: <audio>/<video
<tx: <audio pkts>/<audio bytes>,<video pkts>/<video bytes>,<t120 pkts>/<t120 bytes
<rx: <audio pkts>/<audio bytes>,<video pkts>/<video bytes>,<t120 pkts>/<t120 bytes

Telephony call-legs: 3
SIP call-legs: 0
H323 call-legs: 0
Total call-legs: 5
374672hs.31 +2 +1367 pid:8913180 Answer 8915510 : 1225
,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

400917hs.33 +1 +4108 pid:8913180 Answer 8915510 : 1229
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

439580hs.34 +100 +2971 pid:1 Originate andy@testlab-t37.com : 1230
(:<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

```


معلومات ذات صلة

- [فاكس T.37 OffRamp](#)
- [الفاكس عبر متجر IP T.37 وإعادة توجيه الفاكس](#)
- [دعم تقنية الصوت](#)
- [دعم منتجات الاتصالات الصوتية والاتصالات الموحدة](#)
- [استكشاف أخطاء خدمة IP الهاتفية من Cisco وإصلاحها](#)
- [الدعم الفني - Cisco Systems](#)

ةمچرتل هذه لوج

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