

# T.37 OffRamp Faxing

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## Introduction

This section of the main Fax over IP T.37 Store and Forward Fax document focuses on OffRamp store-and-forward faxing. OffRamp T.37 is the process by which a gateway accepts an email, converts that email to a fax, and then sends it out through a voice-port.

This document contains the necessary configuration needed to get the feature operational. The Troubleshoot section goes over the useful **debug** commands and how to interpret their meaning. The topology used is shown in the Network Diagram section.

## Prerequisites

### Requirements

The specific requirements for this document are specified in the main section, Fax over IP T.37 Store and Forward Fax.

### Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

### Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

# Configuration

In the sections below, first the Cisco IOS® Software configuration parameters relevant to OffRamp fax configuration are explained, and then the 5300 configuration is displayed with further notes clarifying the functions of important commands.

## Network Diagram

This document uses the network setup shown in the diagram below.



## Configuration Parameters

Below are the common commands used in the OffRamp configuration of the gateway:

Mandatory parameters:	
<b>fax interface-type fax-mail</b>	Enables T.37 functionality for the gateway. Requires a reboot on the 5300, but not the 5350 or 5400.
<b>mta receive aliases</b>	Defines a hostname to be used as an alias for the OffRamp gateway. Up to ten can be defined. The gateway accepts incoming mail if the destination hostname of the inbound mail matches an alias.
<b>mta receive maximum-recipients</b>	Defines the maximum number of simultaneous Simple Mail Transfer Protocol (SMTP) recipients handled by this gateway.
<b>dial-peer voice <i>number</i> mmoip application offramp incoming called-number information-type fax</b>	The <b>application offramp</b> command refers to the <b>call application voice <i>name</i></b> command. The <i>name</i> matches offramp. The <b>incoming called-number</b> command is used to match this Multimedia Mail over IP (MMoIP) peer inbound. The <b>information-type fax</b> command identifies calls associated with this peer as being fax transmissions.

<b>call application voice name location</b>	Defines a global name for the application (offramp, in this case) and its location (on an external TFTP server, in this case).
Optional parameters:	
<b>fax send transmitting-subscriber</b>	Defines the transmitting subscriber identification (TSD). The options are: { \$a\$   \$d\$   \$p\$   \$s\$   \$t\$   string }
<b>fax send center-header fax send left-header fax send right-header</b>	<ul style="list-style-type: none"> <li>• \$a\$ Date</li> <li>• \$d\$ Destination address</li> <li>• \$s\$ Sender address</li> <li>• \$p\$ Page count</li> <li>• \$t\$ Transmission time</li> </ul> <p>Use the <i>string</i> argument in this command to insert a personalized text string.</p>
<b>fax send coveragepage</b>	<p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>enable</b> Enables the OffRamp gateway to send a cover sheet.</li> <li>• <b>comment</b> Adds personalized comments to the cover sheet.</li> <li>• <b>show-detail</b> Prints the entire email header as part of the cover sheet.</li> </ul>
<b>mta receive generate-mdn</b>	Enables the OffRamp gateway to respond to message disposition notification (MDN) requests.

## OffRamp Configuration

Emails were sent from Outlook Express to the OffRamp gateway (vdtl-5350-8a) and were sent to a number of destinations.

```
vdtl-5350-8a# show run
Building configuration...

Current configuration : 6415 bytes
!
!
version 12.2
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
no service password-encryption
!
hostname vdtl-5350-8a
!
boot system flash c5350-is-mz.122-7.6.T1
```

```
enable secret 5 $1$MmyY$IQ3OWlYfd9xj0Jj5lYaC7.
!
!
resource-pool disable
clock timezone EST -5
!
!
ip subnet-zero
ip cef
ip domain-name testlab-t37.com
ip name-server 172.18.106.36
!
isdn switch-type primary-5ess
!
!
fax send transmitting-subscriber $$s
fax send left-header $t$
fax send center-header $$s
fax send right-header $p$
fax send coverpage enable
fax send coverpage show-detail
fax send coverpage comment vdtl-5350-8a Offramp Cover Page
fax interface-type fax-mail
mta receive aliases vdtl-5350-8a.testlab-t37.com
mta receive aliases 15.80.8.107
mta receive maximum-recipients 100
call-history-mib retain-timer 500
call-history-mib max-size 500
!
controller T1 3/0
framing esf
linecode b8zs
pri-group timeslots 1-24
!
!
interface FastEthernet0/0
ip address 15.80.8.107 255.255.255.0
!
interface Serial3/0:23
no ip address
isdn switch-type primary-5ess
isdn incoming-voice modem
!
interface Async1/00
no ip address
!
interface Async1/107
no ip address
!
interface Group-Async0
no ip address
no group-range
!
ip classless
ip route 0.0.0.0 0.0.0.0 15.80.8.1
no ip http server
ip pim bidir-enable
!
!
call rsvp-sync
!
call application voice offramp tftp://172.18.106.10/fax/offramp/app_libretto_offramp.2.0.1
!
voice-port 3/0:D
!
!
```

```

mgcp profile default
!
dial-peer voice 9813182 pots
incoming called-number 9813182
destination-pattern 9[2-9].....
direct-inward-dial
port 3/0:D
forward-digits all
!
dial-peer voice 1 mmoip
application offramp
incoming called-number 9.....
information-type fax
!
!
line con 0
exec-timeout 0 0
line aux 0
line vty 0 4
password ww
login
line 1/00 1/107
no flush-at-activation
modem InOut
!
scheduler allocate 10000 400
ntp clock-period 17179848
ntp server 172.18.106.15
end

vdt1-5350-8a#

```

## Troubleshoot

This document is a continuation of T.37 OnRamp Faxing. Most of the command references listed in that document are also used for OffRamp faxing. Refer to that document for more information.

## Failed Debugs

These are the **debug** command output logs from an unsuccessful fax call. This **debug** command was issued on a Cisco 5350 gateway, which is acting as the OffRamp fax gateway for the network in this example.

```

vdt1-5350-8a# debug mta receive all
All email receive debugging is on
vdt1-5350-8a#
Mar 26 12:15:02.372: esmtp_server_work: calling ehlo
Mar 26 12:15:02.780: esmtp_server_work: calling mail
Mar 26 12:15:03.280: esmtp_server_work: calling rcpt
Mar 26 12:15:03.780: esmtp_server_work: calling data
Mar 26 12:15:04.280: (S)R: 'Received: from andyw2k ([172.18.106.183]) by
vnt-smtp.testlab-t37.com with Microsoft SMTPSVC(5.0.2195.4453);'
Mar 26 12:15:04.280: (S)R: ' Tue, 26 Mar 2002 12:13:50 -0500'
Mar 26 12:15:04.280: (S)R: 'Message-ID: <000301cld4e9$c3a937c0$b76a12ac@amer.cisco.com>'
Mar 26 12:15:04.280: (S)R: 'From: "Andy" <andy@testlab-t37.com>'
Mar 26 12:15:04.280: (S)R: 'To: <FAX=98915510@vdt1-5350-8a.testlab-t37.com>'
Mar 26 12:15:04.280: (S)R: 'Subject: test email with WinFax Pro...'
Mar 26 12:15:04.284: (S)R: 'MIME-Version: 1.0'
Mar 26 12:15:04.284: (S)R: 'Content-Type: multipart/mixed;'
Mar 26 12:15:04.284: (S)R: ' boundary="/en/US/docs/net_mgmt/wan_service_administrator/1.1/'
Mar 26 12:15:04.284: (S)R: 'X-Mailer: Microsoft Outlook Express 6.00.2600.0000'
Mar 26 12:15:04.284: (S)R: 'X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000'
Mar 26 12:15:04.284: (S)R: 'Return-Path: andy@testlab-t37.com'
Mar 26 12:15:04.284: (S)R: 'X-OriginalArrivalTime: 26 Mar 2002 17:13:50.0153 (UTC)

```

```

FILETIME=[98F1B390:01C1D4E9]'
Mar 26 12:15:04.284: (S)R: 'Date: 26 Mar 2002 12:13:50 -0500'
Mar 26 12:15:04.284: (S)R: ''
Mar 26 12:15:04.284: esmtp_server_engine_new_part: Field name : message-id:
  Field Value : <000301c1d4e9$c3a937c0$b76a12ac@amer.cisco.com>
Field name : from: Field Value : "Andy" <andy@testlab-t37.com>
Field name : to: Field Value : <FAX=98915510@vdtl-5350-8a.testlab-t37.com>
Field name : subject: Field Value : test email with WinFax Pro...
Field name : Content-Type: Field Value : multipart/mixed;
  boundary="/en/US/docs/net_mgmt/wan_service_administrator/1.1/administrator/guide/getstart
Field name : date: Field Value : 26 Mar 2002 12:13:50 -0500

Mar 26 12:15:04.284: (S)R: 'Content-Type: text/plain;'
Mar 26 12:15:04.284: (S)R: ' charset="iso-8859-1"'
Mar 26 12:15:04.284: (S)R: 'Content-Transfer-Encoding: quoted-printable'
Mar 26 12:15:04.284: (S)R: ''
Mar 26 12:15:04.284: esmtp_server_engine_new_part: Field name : Content-Type:
  Field Value : text/plain; charset="iso-8859-1"
Field name : Content-Transfer-Encoding: Field Value : quoted-printable

Mar 26 12:15:04.284: esmtp_server_work: freeing temp header
Mar 26 12:15:04.284: (S)R: 'Content-Type: application/x-msdownload;'
Mar 26 12:15:04.284: (S)R: ' name="FAX2B.exe"'
Mar 26 12:15:04.284: (S)R: 'Content-Transfer-Encoding: base64'
Mar 26 12:15:04.284: (S)R: 'Content-Disposition: attachment;'
Mar 26 12:15:04.284: (S)R: ' filename="FAX2B.exe"'
Mar 26 12:15:04.284: (S)R: ''
Mar 26 12:15:04.284: esmtp_server_engine_new_part: Field name : Content-Type:
  Field Value : application/x-msdownload; name="FAX2B.exe"
Field name : Content-Transfer-Encoding: Field Value : base64

Mar 26 12:15:04.284: esmtp_server_work: freeing temp header
Mar 26 12:15:04.288: esmtp_server_work: Unrecognized/handled MIME content
  type rejected
Mar 26 12:15:04.600: (S)R: ''
Mar 26 12:15:04.600: esmtp_server_engine_new_part:
Mar 26 12:15:04.600: esmtp_server_work: freeing temp header
Mar 26 12:15:04.600: esmtp_server_dot_check: Found the terminating Dot!
Mar 26 12:15:04.600: rejectMessage:
Mar 26 12:15:22.052: esmtp_server_engine_update_recipient_status: status=7
Mar 26 12:16:09.156: esmtp_server_engine_get_statistics: ctx=0x6363AA38,
  smtpStatus=14
Mar 26 12:16:09.156: esmtp_server_engine_update_recipient_status: status=24
Mar 26 12:16:19.600: esmtp_server_engine_generate_notification:
Mar 26 12:16:20.264: esmtp_server_work: calling quit
Mar 26 12:16:20.264: esmtp_server_closesocket: esmtp_server: closing socket 1
Mar 26 12:16:20.264: esmtp_server_engine_clear_state:
Mar 26 12:16:20.264: freeing RECIPIENT context
  (envelope=FAX=98915510@vdtl-5350-8a.testlab-t37.com)
Mar 26 12:16:20.264: esmtp_server_work: Freeing SMTP ctx at 0x6363AA38
Mar 26 12:16:20.264: esmtp_server: returned from work, context freed
vdtl-5350-8a#

```

## Working Debugs

These are the **debug** command output logs from a successful fax call. The **debug** commands were again issued on a Cisco 5350 gateway, which is the OffRamp fax gateway in this example.

```

vdtl-5350-8a# debug mta receive all
All email receive debugging is on
vdtl-5350-8a#
Mar 26 11:20:17.231: esmtp_server_work: calling ehlo
Mar 26 11:20:17.683: esmtp_server_work: calling mail
Mar 26 11:20:18.183: esmtp_server_work: calling rcpt

```

Mar 26 11:20:18.683: esmtp\_server\_work: calling data  
Mar 26 11:20:19.183: (S)R: 'Received: from andyw2k ([172.18.106.183]) by vnt-smtp.testlab-t37.com with Microsoft SMTPSVC(5.0.2195.4453);'  
Mar 26 11:20:19.187: (S)R: ' Tue, 26 Mar 2002 11:19:05 -0500'  
Mar 26 11:20:19.187: (S)R: 'Message-ID: <000901c1d4e2\$1d55bc60\$b76a12ac@amer.cisco.com>'  
Mar 26 11:20:19.187: (S)R: 'Reply-To: "Andy" <andy@testlab-t37.com>'  
Mar 26 11:20:19.187: (S)R: 'From: "Andy" <andy@testlab-t37.com>'  
Mar 26 11:20:19.187: (S)R: 'To: <FAX=98915510@vdtl-5350-8a.testlab-t37.com>'  
Mar 26 11:20:19.187: (S)R: 'Subject: Test fax '  
Mar 26 11:20:19.187: (S)R: 'Date: Tue, 26 Mar 2002 11:20:16 -0500'  
Mar 26 11:20:19.187: (S)R: 'MIME-Version: 1.0'  
Mar 26 11:20:19.187: (S)R: 'Content-Type: multipart/mixed;'  
Mar 26 11:20:19.187: (S)R: ' boundary="/en/US/docs/net\_mgmt/wan\_service\_administrator/1.1/'  
Mar 26 11:20:19.187: (S)R: 'X-Priority: 3'  
Mar 26 11:20:19.187: (S)R: 'X-MSMail-Priority: Normal'  
Mar 26 11:20:19.187: (S)R: 'X-Mailer: Microsoft Outlook Express 6.00.2600.0000'  
Mar 26 11:20:19.187: (S)R: 'X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000'  
Mar 26 11:20:19.187: (S)R: 'Return-Path: andy@testlab-t37.com'  
Mar 26 11:20:19.187: (S)R: 'X-OriginalArrivalTime: 26 Mar 2002 16:19:05.0120 (UTC) FILETIME=[F2E97200:01C1D4E1]'  
Mar 26 11:20:19.187: (S)R: ''  
Mar 26 11:20:19.187: esmtp\_server\_engine\_new\_part: Field name : message-id:  
Field Value : <000901c1d4e2\$1d55bc60\$b76a12ac@amer.cisco.com>  
Field name : from: Field Value : "Andy" <andy@testlab-t37.com>  
Field name : to: Field Value : <FAX=98915510@vdtl-5350-8a.testlab-t37.com>  
Field name : subject: Field Value : Test fax  
Field name : date: Field Value : Tue, 26 Mar 2002 11:20:16 -0500  
Field name : Content-Type: Field Value : multipart/mixed;  
boundary="/en/US/docs/net\_mgmt/wan\_service\_administrator/1.1/administrator/guide/getstart  
Mar 26 11:20:19.187: (S)R: 'Content-Type: multipart/alternative;'  
Mar 26 11:20:19.187: (S)R: ' boundary="/en/US/docs/net\_mgmt/wan\_service\_administrator/1.1/'  
Mar 26 11:20:19.187: (S)R: ''  
Mar 26 11:20:19.187: esmtp\_server\_engine\_new\_part: Field name : Content-Type:  
Field Value : multipart/alternative; boundary="/en/US/docs/net\_mgmt/wan\_service\_administr  
Mar 26 11:20:19.191: esmtp\_server\_work: freeing temp header  
Mar 26 11:20:19.191: (S)R: 'Content-Type: text/plain;'  
Mar 26 11:20:19.191: (S)R: ' charset="iso-8859-1"  
Mar 26 11:20:19.191: (S)R: 'Content-Transfer-Encoding: quoted-printable'  
Mar 26 11:20:19.191: (S)R: ''  
Mar 26 11:20:19.191: esmtp\_server\_engine\_new\_part: Field name : Content-Type:  
Field Value : text/plain; charset="iso-8859-1"  
Field name : Content-Transfer-Encoding: Field Value : quoted-printable  
Mar 26 11:20:19.191: esmtp\_server\_work: freeing temp header  
Mar 26 11:20:19.191: (S)R: 'Content-Type: text/html;'  
Mar 26 11:20:19.191: (S)R: ' charset="iso-8859-1"  
Mar 26 11:20:19.191: (S)R: 'Content-Transfer-Encoding: quoted-printable'  
Mar 26 11:20:19.191: (S)R: ''  
Mar 26 11:20:19.191: esmtp\_server\_engine\_new\_part: Field name : Content-Type:  
Field Value : text/html; charset="iso-8859-1"  
Field name : Content-Transfer-Encoding: Field Value : quoted-printable  
Mar 26 11:20:19.191: esmtp\_server\_work: freeing temp header  
Mar 26 11:20:19.191: (S)R: ''  
Mar 26 11:20:19.191: esmtp\_server\_engine\_new\_part:  
Mar 26 11:20:19.191: esmtp\_server\_work: freeing temp header  
Mar 26 11:20:19.191: (S)R: 'Content-Type: text/plain;'  
Mar 26 11:20:19.191: (S)R: ' name="New Text Document.txt"  
Mar 26 11:20:19.191: (S)R: 'Content-Transfer-Encoding: quoted-printable'  
Mar 26 11:20:19.191: (S)R: 'Content-Disposition: attachment;'  
Mar 26 11:20:19.191: (S)R: ' filename="New Text Document.txt"  
Mar 26 11:20:19.191: (S)R: ''  
Mar 26 11:20:19.191: esmtp\_server\_engine\_new\_part: Field name : Content-Type:

Field Value : text/plain; name="New Text Document.txt"  
Field name : Content-Transfer-Encoding: Field Value : quoted-printable

```
Mar 26 11:20:19.191: esmtp_server_work: freeing temp header
Mar 26 11:20:19.195: esmtp_server_engine_update_recipient_status: status=6
Mar 26 11:20:36.295: esmtp_server_engine_update_recipient_status: status=7
Mar 26 11:20:36.347: esmtp_server_engine_update_recipient_status: status=6
Mar 26 11:21:19.975: esmtp_server_engine_update_recipient_status: status=7
Mar 26 11:21:34.195: (S)R: ''
Mar 26 11:21:34.195: esmtp_server_engine_new_part:
Mar 26 11:21:34.195: esmtp_server_work: freeing temp header
Mar 26 11:21:34.195: esmtp_server_dot_check: Found the terminating Dot!
Mar 26 11:21:34.275: esmtp_server_engine_update_recipient_status: status=6
Mar 26 11:22:40.491: esmtp_server_engine_update_recipient_status: status=7
Mar 26 11:22:58.379: esmtp_server_engine_get_statistics: ctx=0x63624708, smtpStatus=14
Mar 26 11:22:58.379: esmtp_server_engine_update_recipient_status: status=24
Mar 26 11:23:04.195: esmtp_server_engine_generate_notification:
Mar 26 11:23:04.699: esmtp_server_work: calling quit
Mar 26 11:23:04.699: esmtp_server_closesocket: esmtp_server: closing socket 1
Mar 26 11:23:04.699: esmtp_server_engine_clear_state:
Mar 26 11:23:04.699: freeing RECIPIENT context
(envelope=FAX=98915510@vdtl-5350-8a.testlab-t37.com)
Mar 26 11:23:04.699: esmtp_server_work: Freeing SMTP ctx at 0x63624708
Mar 26 11:23:04.699: esmtp_server: returned from work, context freed
vdtl-5350-8a#
```

vdtl-5350-8a# **debug foip off-ramp**

FOIP Off ramp faxmail debugging is on

vdtl-5350-8a#

vdtl-5350-8a#

vdtl-5350-8a#

```
Mar 26 11:27:57.667: lapp off: CC_EV_CALL_HANDOFF, cid(0xA7)
Mar 26 11:27:57.667: loffHandoff: called number=98915510, callid=0xA7
Mar 26 11:27:57.667: loffSetupPeer: cid1(0xA7)
Mar 26 11:27:57.667: destPat(98915510),matched(1),pref(),tag(9913182),encap(1)
Mar 26 11:27:57.759: lapp off: CC_EV_CALL_PROCEEDING, cid(0xA8)
Mar 26 11:27:57.875: lapp off: CC_EV_CALL_ALERT, cid(0xA8)
Mar 26 11:28:07.487: lapp off: CC_EV_CALL_CONNECTED, cid(0xA8)
Mar 26 11:28:07.487: st=CALL_SETTING cid(0xA7,0x0,0x0,0xA8),cfid(0x0,0x0,0x0)
Mar 26 11:28:07.487: loffConnected
Mar 26 11:28:07.487: loffFlushPeerTagQueue cid(167) peer list: (empty)
Mar 26 11:28:07.487: lapp off: CC_EV_CONF_CREATE_DONE, cid(0xA8), cid2(0xA9), cfid(0x5F)
Mar 26 11:28:07.487: st=CONFERENCING3 cid(0xA7,0x0,0xA9,0xA8),cfid(0x0,0x0,0x5F)
Mar 26 11:28:07.487: loffConfDone3
Mar 26 11:28:15.419: lapp off: CC_EV_FROM_FMSP_ON_CALL_DETAIL, cid(0xA9)
Mar 26 11:28:15.419: st=WAIT_SESS_INFO cid(0xA7,0x0,0xA9,0xA8),cfid(0x0,0x0,0x5F)
Mar 26 11:28:15.419: loffSessionInfo
Mar 26 11:28:15.419: encd=1, resl=2, spd=27, min_scan_len=0, csid= andy-pc fax
Mar 26 11:28:15.419: lapp off: CC_EV_CONF_CREATE_DONE, cid(0xA9), cid2(0xAA), cfid(0x60)
Mar 26 11:28:15.419: st=CONFERENCING2 cid(0xA7,0xAA,0xA9,0xA8),cfid(0x0,0x60,0x5F)
Mar 26 11:28:15.419: loffConfDone2
Mar 26 11:28:15.419: loff_edit_cover_page: from_personal_name: 0, []
Mar 26 11:28:15.419: loff_edit_cover_page: 0, []
Mar 26 11:28:15.419: loff_edit_cover_page: [andy@testlab-t37.com]
```

-----  
Title: vdtl-5350-8a Offramp Cover Page

To: 98915510

From: andy@testlab-t37.com

Date: Tue, 26 Mar 2002 11:27:55 -0500

Subject: test with a word doc attachment...

Details:



Received: from andyw2k ([172.18.106.183]) by vnt-smtp.testlab-t37.com with Microsoft  
SMTPSVC(5.0.2195.44 Message-ID: <001301c1d4e3\$2f020210\$b76a12ac@amer.cisco.com>  
Reply-To: "Andy" <andy@testlab-t37.com>  
From:  
Andy" <andy@testlab-t37.com>  
To: <FAX=98915510@vdt1-5350-8a.testlab-t37.com>  
Subject: test with a word doc attachment...  
Date: Tue, 26 Mar 2002 11:27:55 -0500  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary  
"-----\_NextPart\_000\_000F\_01C1D4B9.46214BB0"  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-Mailer: Microsoft Outlook Express 6.00.2600.0000  
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000  
Return-Path: andy@testlab-t37.com  
X-OriginalArrivalTime: 26 Mar 2002 16:26:43.0619 (UTC) FILETIME=[0432D730:01C1D4E3]  
-----

Mar 26 11:28:15.419: lapp off: CC\_EV\_CONF\_CREATE\_DONE, cid(0xAA), cid2(0xA7),  
cfid(0x61)  
Mar 26 11:28:15.419: st=CONFERENCING1 cid(0xA7,0xAA,0xA9,0xA8),cfid(0x61,0x60,0x5F)  
Mar 26 11:28:15.419: loffConfDone1  
Mar 26 11:28:15.451: lapp off: CC\_EV\_FROM\_DMSP\_ON\_PAGE\_PROCESSED, cid(0xAA):  
page number (0x1)  
Mar 26 11:28:15.451: lapp off: CC\_EV\_GENERATE\_PAGE\_RSP, cid(0xAA)  
Mar 26 11:28:15.451: lapp off: CC\_EV\_FROM\_DMSP\_ON\_PAGE\_PROCESSED, cid(0xAA):  
page number (0x2)  
Mar 26 11:28:51.875: lapp off: CC\_EV\_CALL\_DISCONNECTED, cid(0xA9)  
Mar 26 11:28:51.875: cause 0x10(normal call clearing (16))  
Mar 26 11:28:51.875: st=CONFERENCE cid(0xA7,0xAA,0xA9,0xA8),cfid(0x61,0x60,0x5F)  
Mar 26 11:28:51.875: loffDisconnected  
Mar 26 11:28:51.875: loffSetDiscCause: cause=normal call clearing (16)  
Mar 26 11:28:51.875: loffRemoveConf  
Mar 26 11:28:51.875: lapp off: CC\_EV\_CONF\_DESTROY\_DONE, cid(0xAA), cid2(0xA7),  
cfid(0x61)  
Mar 26 11:28:51.875: st=CONF\_REMOVING cid(0xA7,0xAA,0xA9,0xA8),cfid(0x61,0x60,0x5F)  
Mar 26 11:28:51.875: loffConfRemoving: cfid=0x61, cnt=3  
Mar 26 11:28:51.875: lapp off: CC\_EV\_CONF\_DESTROY\_DONE, cid(0xA9), cid2(0xAA),  
cfid(0x60)  
Mar 26 11:28:51.879: st=CONF\_REMOVING cid(0xA7,0xAA,0xA9,0xA8),cfid(0x0,0x60,0x5F)  
Mar 26 11:28:51.879: loffConfRemoving: cfid=0x60, cnt=2  
Mar 26 11:28:51.879: lapp off: CC\_EV\_CONF\_DESTROY\_DONE, cid(0xA8), cid2(0xA9),  
cfid(0x5F)  
Mar 26 11:28:51.879: st=CONF\_REMOVING cid(0xA7,0xAA,0xA9,0xA8),cfid(0x0,0x0,0x5F)  
Mar 26 11:28:51.879: loffConfRemoving: cfid=0x5F, cnt=1  
Mar 26 11:28:51.879: loffDisconnect4 cid=0xA8  
Mar 26 11:28:54.363: loff\_call\_history: cid=0xA8, (0xA7,0xAA,0xA9,0xA8)  
Mar 26 11:28:54.363: lapp off: CC\_EV\_CALL\_DISCONNECT\_DONE, cid(0xA8)  
Mar 26 11:28:54.363: st=WAIT\_DISC\_DONE4 cid(0xA7,0xAA,0xA9,0xA8),cfid(0x0,0x0,0x0)  
Mar 26 11:28:54.363: loffWaitDiscDone4  
Mar 26 11:28:54.363: loff\_call\_history: cid=0xA9, (0xA7,0xAA,0xA9,0x0)  
Mar 26 11:28:54.363: lapp off: CC\_EV\_CALL\_DISCONNECT\_DONE, cid(0xA9)  
Mar 26 11:28:54.363: st=DISCONNECTING cid(0xA7,0xAA,0xA9,0x0),cfid(0x0,0x0,0x0)  
Mar 26 11:28:54.363: loffDisconnecting  
Mar 26 11:28:54.363: loff\_call\_history: cid=0xAA, (0xA7,0xAA,0x0,0x0)  
Mar 26 11:28:54.363: lapp off: CC\_EV\_CALL\_DISCONNECT\_DONE, cid(0xAA)  
Mar 26 11:28:54.363: st=DISCONNECTING cid(0xA7,0xAA,0x0,0x0),cfid(0x0,0x0,0x0)  
Mar 26 11:28:54.363: loffDisconnecting  
Mar 26 11:28:54.363: loff\_call\_history: cid=0xA7, (0xA7,0x0,0x0,0x0)  
Mar 26 11:28:54.363: lapp off: CC\_EV\_CALL\_DISCONNECT\_DONE, cid(0xA7)  
Mar 26 11:28:54.363: st=DISCONNECTING cid(0xA7,0x0,0x0,0x0),cfid(0x0,0x0,0x0)  
Mar 26 11:28:54.363: loffDisconnecting  
Mar 26 11:28:54.363: loffFinished

```
vdctl-5350-8a# debug fmsp send t30
FMSP send t30 debugging is on
vdctl-5350-8a# debug fmsp receive t30
FMSP receive t30 debugging is on
vdctl-5350-8a#
Mar 26 11:43:29.570: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:29.570: fax2_command_receive: NO_COMMAND, T1
timer is not expired
Mar 26 11:43:33.622: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:33.622: received flag of modulation:
0
Mar 26 11:43:33.622: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:33.622: fax2_command_receive: NO_COMMAND, T1
timer is not expired
Mar 26 11:43:35.050: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:35.050: fax2_command_receive: PROCESSING
Mar 26 11:43:35.662: msg dump:FF C0 2 1E 86 66 4 C6 E B4 9E A6 36 2E 96 16 EE B6 4 4 4 4 4
Mar 26 11:43:35.662:
Mar 26 11:43:35.662: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:35.662: received: CSI remote id
string: andy-pc fax

Mar 26 11:43:35.662: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:35.662: fax2_command_receive: PROCESSING
Mar 26 11:43:35.930: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:35.930: fax2_command_receive: PROCESSING
Mar 26 11:43:36.198: msg dump:FF C8 1 0 76 1F 1 1 9 0
Mar 26 11:43:36.198:
Mar 26 11:43:36.198: t30 call4Leg=173, state=4, substate=7
Mar 26 11:43:36.198: fax2_command_receive: PROCESSING
Mar 26 11:43:36.326: t30 call4Leg=173, state=4, substate=19
Mar 26 11:43:36.326: received DIS_PACKET: BR: 9, resolution: 1,
encoding : 0, min scan line length : 0, remote_id_string: andy-pc fax
Mar 26 11:43:36.326: t30 call4Leg=173, state=4, substate=21
Mar 26 11:43:36.330: send DCS_PACKET: BR: 9, resolution: 1,
encoding : 0, local_id_string:
Mar 26 11:43:36.330: msg dump:FF C8 C1 0 46 1E
Mar 26 11:43:36.330:
Mar 26 11:43:36.330: t30 call4Leg=173, state=4, substate=24
Mar 26 11:43:36.330: fax2_response_receive: PROCESSING
Mar 26 11:43:41.834: t30 call4Leg=173, state=4, substate=24
Mar 26 11:43:41.834: received flag of modulation:
0
Mar 26 11:43:41.834: t30 call4Leg=173, state=4, substate=24
Mar 26 11:43:41.834: fax2_response_receive: PROCESSING
Mar 26 11:43:42.670: t30 call4Leg=173, state=4, substate=24
Mar 26 11:43:42.670: fax2_response_receive: PROCESSING
Mar 26 11:43:42.750: msg dump:FF C8 21
Mar 26 11:43:42.750:
Mar 26 11:43:42.750: t30 call4Leg=173, state=4, substate=24
Mar 26 11:43:42.750: fax2_response_receive: PROCESSING
Mar 26 11:43:42.890: t30 call4Leg=173, state=4, substate=24
Mar 26 11:43:42.890: in response receive WAIT FOR CD
Mar 26 11:43:42.890: t30 call4Leg=173, state=4, substate=25
Mar 26 11:43:42.894: received CFR
Mar 26 11:43:49.290: t30 call4Leg=173, state=5, substate=44
Mar 26 11:43:49.290: throttling tx data, buffered data is
61
Mar 26 11:44:00.794: t30 call4Leg=173, state=6, substate=31
Mar 26 11:44:00.794: send MPS
Mar 26 11:44:00.794: t30 call4Leg=173, state=6, substate=32
Mar 26 11:44:00.794: fax2_response_receive: PROCESSING
Mar 26 11:44:03.222: t30 call4Leg=173, state=6, substate=32
Mar 26 11:44:03.222: received flag of modulation:
0
Mar 26 11:44:03.222: t30 call4Leg=173, state=6, substate=32
```

Mar 26 11:44:03.226: fax2\_response\_receive: PROCESSING  
Mar 26 11:44:04.066: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:04.066: fax2\_response\_receive: PROCESSING  
Mar 26 11:44:04.146: msg dump:FF C8 31  
Mar 26 11:44:04.146:  
Mar 26 11:44:04.146: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:04.146: fax2\_response\_receive: PROCESSING  
Mar 26 11:44:04.294: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:04.294: in response receive WAIT FOR CD  
Mar 26 11:44:04.294: t30 call4Leg=173, state=6, substate=33  
Mar 26 11:44:04.294: received MCF  
Mar 26 11:44:32.494: t30 call4Leg=173, state=6, substate=31  
Mar 26 11:44:32.494: send MPS  
Mar 26 11:44:32.494: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:32.494: fax2\_response\_receive: PROCESSING  
Mar 26 11:44:34.950: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:34.950: received flag of modulation:  
0  
Mar 26 11:44:34.950: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:34.950: fax2\_response\_receive: PROCESSING  
Mar 26 11:44:35.786: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:35.786: fax2\_response\_receive: PROCESSING  
Mar 26 11:44:35.870: msg dump:FF C8 31  
Mar 26 11:44:35.870:  
Mar 26 11:44:35.870: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:35.870: fax2\_response\_receive: PROCESSING  
Mar 26 11:44:36.018: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:44:36.018: in response receive WAIT FOR CD  
Mar 26 11:44:36.018: t30 call4Leg=173, state=6, substate=33  
Mar 26 11:44:36.018: received MCF  
Mar 26 11:45:08.118: t30 call4Leg=173, state=6, substate=31  
Mar 26 11:45:08.118: send MPS  
Mar 26 11:45:08.118: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:08.118: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:10.778: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:10.778: received flag of modulation:  
0  
Mar 26 11:45:10.778: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:10.778: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:11.618: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:11.618: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:11.694: msg dump:FF C8 31  
Mar 26 11:45:11.694:  
Mar 26 11:45:11.694: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:11.694: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:11.846: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:11.846: in response receive WAIT FOR CD  
Mar 26 11:45:11.846: t30 call4Leg=173, state=6, substate=33  
Mar 26 11:45:11.846: received MCF  
Mar 26 11:45:30.550: t30 call4Leg=173, state=6, substate=31  
Mar 26 11:45:30.550: send MPS  
Mar 26 11:45:30.550: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:30.550: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:33.034: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:33.034: received flag of modulation:  
0  
Mar 26 11:45:33.034: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:33.034: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:33.874: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:33.874: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:33.950: msg dump:FF C8 31  
Mar 26 11:45:33.950:  
Mar 26 11:45:33.950: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:33.950: fax2\_response\_receive: PROCESSING  
Mar 26 11:45:34.102: t30 call4Leg=173, state=6, substate=32  
Mar 26 11:45:34.102: in response receive WAIT FOR CD

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Mar 26 11:45:34.102: t30 call4Leg=173, state=6, substate=33
Mar 26 11:45:34.102: received MCF
Mar 26 11:45:39.006: t30 call4Leg=173, state=5, substate=27
Mar 26 11:45:39.006: un-throttling tx data, buffered data is
6
Mar 26 11:45:39.206: t30 call4Leg=173, state=6, substate=31
Mar 26 11:45:39.206: send MPS
Mar 26 11:45:39.206: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:39.206: fax2_response_receive: PROCESSING
Mar 26 11:45:41.634: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:41.634: received flag of modulation:
0
Mar 26 11:45:41.634: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:41.634: fax2_response_receive: PROCESSING
Mar 26 11:45:42.470: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:42.470: fax2_response_receive: PROCESSING
Mar 26 11:45:42.554: msg dump:FF C8 31
Mar 26 11:45:42.554:
Mar 26 11:45:42.554: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:42.554: fax2_response_receive: PROCESSING
Mar 26 11:45:42.702: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:42.702: in response receive WAIT FOR CD
Mar 26 11:45:42.702: t30 call4Leg=173, state=6, substate=33
Mar 26 11:45:42.702: received MCF
Mar 26 11:45:47.602: t30 call4Leg=173, state=6, substate=31
Mar 26 11:45:47.602: send EOP
Mar 26 11:45:47.602: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:47.602: fax2_response_receive: PROCESSING
Mar 26 11:45:50.022: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:50.022: received flag of modulation:
0
Mar 26 11:45:50.022: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:50.022: fax2_response_receive: PROCESSING
Mar 26 11:45:50.866: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:50.866: fax2_response_receive: PROCESSING
Mar 26 11:45:50.942: msg dump:FF C8 31
Mar 26 11:45:50.942:
Mar 26 11:45:50.946: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:50.946: fax2_response_receive: PROCESSING
Mar 26 11:45:51.094: t30 call4Leg=173, state=6, substate=32
Mar 26 11:45:51.098: in response receive WAIT FOR CD
Mar 26 11:45:51.098: t30 call4Leg=173, state=6, substate=33
Mar 26 11:45:51.098: received MCF
Mar 26 11:45:51.098: t30 call4Leg=173, state=7, substate=37
Mar 26 11:45:51.098: send DCN_PACKET
Mar 26 11:45:51.098: t30 call4Leg=173, state=0, substate=0
Mar 26 11:45:51.098: terminating with hang-up status: 0
vdt1-5350-8a#
```

## Related Information

- **T.37 OnRamp Faxing**
- **Fax over IP T.37 Store and Forward Fax**
- **Voice and Unified Communications Product Support**
- **Troubleshooting Cisco IP Telephony** [🔗](#)
- **Technical Support – Cisco Systems**

