

## Attrafax fully tested

Written by Administrator  
Saturday, 18 September 2010 00:00

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Hi Guys,

During last month we have fixed some bugs related with the Fixed point implementation of [Attrafax](#) in Switchfin.

**Switchfin and the Fixed point Attrafax now passes all FAX tests as defined below:**

In order to formalize the tests let's follow the original notation of attrafax-0.9/doc/t38-tests with some Switchfin interpretation.

## So let define our setup like this

fax <-> dahdi <-> IP02/IP08 <-> sip <-> Zoiper

user 6000 -> DAHDI/1 and fax connected to it, this is referred to PSTN below  
user 6001 -> sip account for Zoiper soft phone

### ***Required configuration:***

/etc/asterisk/chan\_dahdi.conf

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faxdetect = both

sip.conf - In both the global section and the device sections for the t38-capable devices add

t38pt\_udptl = yes

### **Dialplan:**

*fax = 6000*

*zoiper = 6001*

*[default]*

*; tdm part =====*

*; fax gw*

*exten => \${fax},1,Dial(DAHD1/1)*

*; standalone app*

*exten => 6701,1,RxFax\_T30(/tmp/t30rx,6701)*

*; sip part =====*

*; fax gw*

*exten => {zoiper},1,Dial({zoiper})*

*; standalone app*

*exten => 6702,1,RxFax\_T38(/tmp/t38rx,6702)*

### **Tests:**

**1) Testing the gateway. The test is done in both directions.**

SIP-receiving, PSTN-transmitting gateway

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- test G01: Send one page from fax to zoiper (extension 6001) and see if it's received ok.
- test G02: Send 10 pages from fax to zoiper (extension 6001) and see if it's received ok.

PSTN-receiving, SIP-transmitting gateway

- test G11: Send one page from zoiper to fax (extension 6000) and see if it's received ok.
- test G12: Send 10 pages from zoiper to fax (extension 6000) and see if it's received ok.

### **2) Testing the T30 (PSTN) applications:**

Receiving a fax from the PSTN

- test G21: Send one page from fax to file (extensions 6701), see the received file.
- test G22: Send 10 pages from fax to file (extensions 6701), see the received files.

Sending a fax to the PSTN:

- test G23: sending a tiff file to the fax. We do this test using call file like this

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Channel: DAHDI/1  
MaxRetries: 0  
RetryTime: 10  
WaitTime: 30  
Application: TXFAX\_T30  
Data: /tmp/onepage.tiff|123456

### **3) Testing the T38 (SIP) applications:**

Receiving a fax from Zoiper

- test G31: Send one page from Zoiper to extensions 6702, see the received file.
- test G32: Send 10 pages from Zoiper to extensions 6702, see the received files.

Sending over SIP, normal apps:

- Test G35: sending a tiff file to Zoiper. We do this test using call file like this

Channel: SIP/6001  
MaxRetries: 0  
RetryTime: 10  
WaitTime: 30  
Application: TXFAX\_T38  
Data: /tmp/onepage.tiff|123456

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## Source Code:

To enable Attrafax in Switchfin just enable it in menuconfig.

For people willing to use it on other platforms fixed point Attrafax patch can be found in our SVN at

<https://switchfin.svn.sourceforge.net/svnroot/switchfin/switchfin/trunk/package/attrafax/attrafax.patch>

The Patch should be applied against [Atrafax-0.9](#) .

We are using Asterisk 1.4.32 and to get the Attrafax gateway functionality working you need to apply the patch at

<https://switchfin.svn.sourceforge.net/svnroot/switchfin/switchfin/trunk/package/asterisk/asterisk-attrafax.patch>

On the fixed point Blackfin CPU we got about 700% speed up. Speed up on a systems with floating point support (like x86) will not be that much but probably still significant. Let us know if you get some performance measurements on x86 or other platforms.

**Once again thank you Zoiper guys for sharing Attrafax!**