

SPA ATA: Voice-Fax-Voice—Basic Configuration

Your SPA112, SPA122, and SPA232D ATA are capable sending and receiving T.38 faxes. Did you know that you can use the phone attached to your fax to make and receive calls and switch to fax-mode when needed? Here's how to configure:

Note: Refer to the [SPA ATA: Fax--T.38 Basic Configuration](#) document for T.38 fax configuration instructions

Scenario

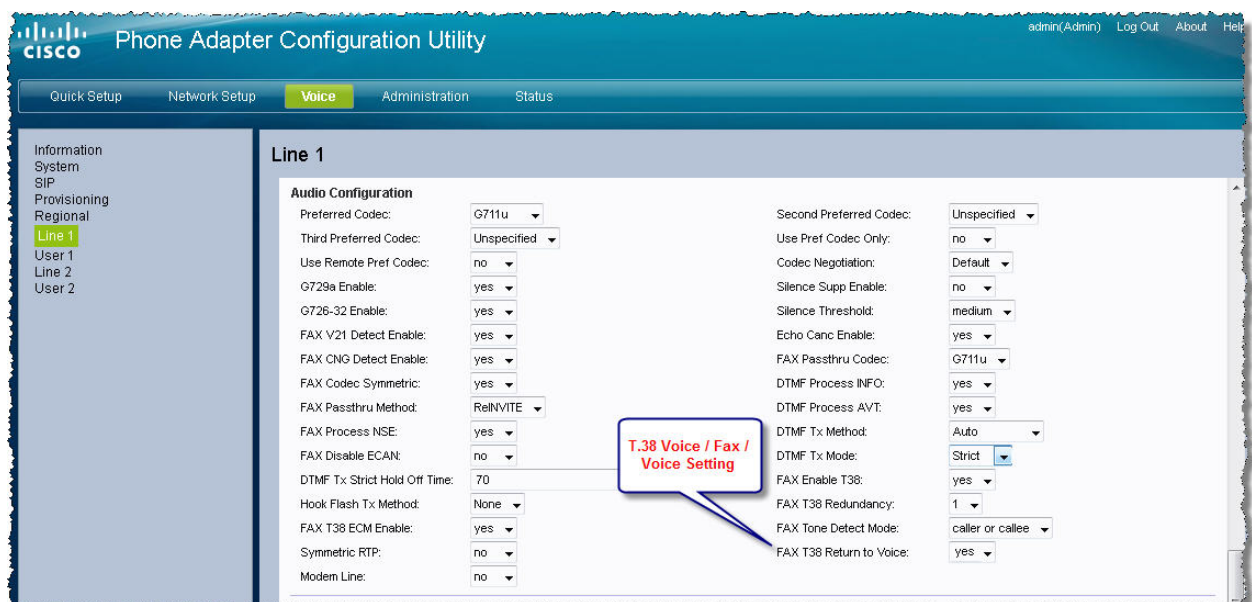
Using the phone connected to your fax machine:

1. Dial the remote party
2. Assuming the remote party also has a fax machine with an attached phone, they can answer their phone and speak with you.
3. You can tell them that you're going to send a fax and press send/fax depending on your fax machine
4. The fax will be transmitted.
5. Once the fax transmission completes you can again speak with the remote party and send another fax or continue speaking.
6. Once done, replace the fax's phone on the cradle.

Configuring Using the web-UI

Voice tab > Line N > Audio Configuration:

1. FAX T38 Return to Voice: yes [no is factory default]
2. Click Submit



The screenshot shows the Cisco Phone Adapter Configuration Utility web-UI. The 'Voice' tab is selected, and the 'Line 1' configuration page is displayed. The 'Audio Configuration' section is visible, with various settings for voice and fax. A callout box points to the 'FAX T38 Return to Voice' setting, which is currently set to 'yes'.

Setting	Value
Preferred Codec:	G711u
Third Preferred Codec:	Unspecified
Use Remote Pref Codec:	no
G729a Enable:	yes
G726-32 Enable:	yes
FAX V21 Detect Enable:	yes
FAX CNG Detect Enable:	yes
FAX Codec Symmetric:	yes
FAX Passthru Method:	RelINVITE
FAX Process NSE:	yes
FAX Disable ECAN:	no
DTMF Tx Strict Hold Off Time:	70
Hook Flash Tx Method:	None
FAX T38 ECM Enable:	yes
Symmetric RTP:	no
Modem Line:	no
Second Preferred Codec:	Unspecified
Use Pref Codec Only:	no
Codec Negotiation:	Default
Silence Supp Enable:	no
Silence Threshold:	medium
Echo Canc Enable:	yes
FAX Passthru Codec:	G711u
DTMF Process INFO:	yes
DTMF Process AVT:	yes
DTMF Tx Method:	Auto
DTMF Tx Mode:	Strict
FAX Enable T38:	yes
FAX T38 Redundancy:	1
FAX Tone Detect Mode:	caller or callee
FAX T38 Return to Voice:	yes



Configuring Using a Configuration File

Include the following in your ATA's configuration file:

```
...
...
<FAX_V21_Detect_Enable_1_>Yes</FAX_V21_Detect_Enable_1_>
<FAX_CNG_Detect_Enable_1_>Yes</FAX_CNG_Detect_Enable_1_>
<FAX_Passthru_Method_1_>ReINVITE</FAX_Passthru_Method_1_>
<FAX_Enable_T38_1_>Yes</FAX_Enable_T38_1_>
<FAX_Tone_Detect_Mode_1_>caller or callee</FAX_Tone_Detect_Mode_1_>
<FAX_T38_Return_to_Voice_1_>Yes</FAX_T38_Return_to_Voice_1_>
...
...
```

Troubleshooting

Contacting Support

If you need to contact Cisco for support with T.38 faxing issues, be sure to provide:

1. the ATA's configuration file [[here's how to gather this data](#)]
2. Configure debug on the ATA [[here's how to do this](#)]
3. Gather a Wireshark trace of the failing fax transmission [[here's how to do this](#)]

Reference Material

Use this [reference document](#) to locate SPA ATA resources

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