MultiTech FAXFinder FF240-IP on Cisco Unified Communications Manager

1) Build a SIP Trunk Security Profile for FAXFinder.
   a. From CUCM Administration interface go to System> Security>SIP Trunk Security Profile.
      Click Add New. Make the setting match below.

2) Build a SIP Profile for FAXFinder.
   a. From CUCM Administration interface go to Device> Device Settings>SIP Profile.
   b. Click Add New. Name it "FAX Finder". Accept all of the default settings. Click Save.
3) Build a SIP Trunk to the FAX Finder.
   a. From CUCM Administration interface go to Device> Trunk.
   b. Click Add New.
   c. For Trunk Type, select SIP Trunk. Click Next.
   d. Fill in the following settings:
      i. Device Name: FAXFinder
      ii. For Device Pool, use a Device Pool that is logical for the physical location. If you are unsure, use the Default Device Pool.
      iii. For Location, use Hub_None.
      iv. For Media Resource Group List, use an MRGL that contains an IOS based Media Termination Point. This will use an IOS router to anchor the calls.

v. Make sure the Media Termination Point Required checkbox is checked.

Trunk Service Type	None(Default)
Device Name*	FAXFinder
Description	
Device Pool*	1Primary
Common Device Configuration	MorefieldStandardCDC
Call Classification*	Use System Default
Media Resource Group List	MRGL1
Location*	Hub_None
AAR Group	< None >
Tunneled Protocol*	None
QSIG Variant*	No Changes
ASN.1 ROSE OID Encoding*	No Changes
Packet Capture Mode*	None
Packet Capture Duration	0

☑ Media Termination Point Required
☑ Retry Video Call as Audio

vi. Under Inbound Routing, set Significant Digits to "All".

vii. Set the Calling Search Space to be able to dial out using a T.38 compatible gateway.

Inbound Calls

Significant Digits*	All
Connected Line ID Presentation*	Default
Connected Name Presentation*	Default
Calling Search Space	CSS-1PrimaryNA-PRI-only

viii. Under SIP Information, set the "Destination Address" as the IP of the FaxFinder device. Set the port as 5060.

ix. For the MTP Preferred Originating Codec, set 711ulaw.

x. For SIP Trunk Security Profile, set it to "Fax Finder" (or what you created in step 1).

xi. For the SIP Profile, set it to "Fax Finder" (or what you created in step 2).

xii. For DTMF Signaling Method, set it to RFC 2833.

SIP Information

Destination

☐ Destination Address is an SRV

	Destination Address	Destination Address IPv6	Destination
1*	192.168.3.23		5060

MTP Preferred Originating Codec*	711ulaw
BLF Presence Group*	Standard Presence group
SIP Trunk Security Profile*	FAX Finder
Rerouting Calling Search Space	CSS-1PrimaryNA-PRI-only
Out-Of-Dialog Refer Calling Search Space	CSS-1PrimaryNA-PRI-only
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	FAX Finder
DTMF Signaling Method*	RFC 2833

       xiii.   Click Save.

4) Route calls to the FaxFinder SIP Trunk.
   a. Create a Route Group that has the FaxFinder SIP trunk in it.
   b. Create a Route List that has the FAXFinder Route Group in it.
   c. Create a Route Pattern that points to the FaxFinder Route List. The Pattern is a FAX DID extension on the system. In many cases, it will be a 4 digit number. Make sure to clear the "Provide Outside Dial Tone" field check box and to classify the call as "OnNet".

Status

ⓘ Status: Ready

Pattern Definition

Route Pattern*	4087
Route Partition	P-Internal
Description	FAX DID
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence*	Default
☐ Apply Call Blocking Percentage	
Resource Priority Namespace Network Domain	< None >
Route Class*	Default
Gateway/Route List*	FAXFinder (Edit)

Route Option   ◉ Route this pattern

                  ◯ Block this pattern No Error

Call Classification*   OnNet

☐ Allow Device Override ☐ Provide Outside Dial Tone ☐ Allow Overlap Sending ☐ Urgent Priority

☐ Require Forced Authorization Code

Authorization Level*   0

☐ Require Client Matter Code

5) On your PSTN trunks, make sure the set T38 FAX Relay. If your gateway is MGCP-based, this setting is on the Gateway level, not the port level. You'll find it under Product Specific Configuration Layout. If you change this setting to enabled, you must reset the gateway for the change to take effect. Note that this immediately drops all calls on all ports on the gateway.

6) On the FAX Finder Admin web interface, go to Fax Configuration>SIP/T.38. Make the settings match the following screen shot.
    a. For SIP Proxy/Gateway, set the IP Address of the Communications Manager.
    b. For FAX Method, use "T.38 Re-invite."

SIP / T.38 Configuration   Defaults

SIP

Transport Protocol	UDP	Local Port	5060
SIP Proxy/Gateway	192.168.3.11	SIP Proxy Port	5060
SIP Domain		Loose Routing	○ on ● off
Firewall Address			
Authorization Required	☐	Use Registrar	☐
Username		Registrar	
Password		Registrar Port	5060
Confirm Password		Expires	3600 (secs)

T.38

Fax ID	Morefield Comm	Max Rate	9600 ▼
Fax Method	T.38 Re-invite ▼	Error Correction	○ on ● off
Fax Codec	☐ G.711 Alaw ☑ G.711 μlaw	Dial Prefix	9
Redundancy Level	3	Jitter Buffer Delay	300 (msecs)
Max Buffer	4000	Max Datagram	948
Extension Source	SIP To Header ▼		
Extension Digits	Use All ▼	Extension Length	0
Channel Reservation	0 Inbound Only 0 Outbound Only		**Save**