

Using FaxFinder[®] with ShoreTel[®]

Application Notes

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Support Portal

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Abstract

Integrating the FaxFinder fax server with ShoreTel Voice Switches provides a complete voice and fax telephony solution.

This document describes how to integrate the ShoreTel Voice Switch with the FaxFinder fax server (FF240-IP or FFx40). It provides product specifics, interoperability test results, typical setup configurations, troubleshooting steps and other important product-related information.

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Overview

The FaxFinder fax server is a network-attached device that replaces legacy paper-based fax machines and allows users to send and receive faxes electronically. The FaxFinder can be set up with the ShoreTel system in one of two ways:

Application 1: Fax Redirect - One Main Number for Both Voice and Fax

Application 2: User with a Unique Voice Extension and a Unique Fax Extension

All inbound faxes can be forwarded to the FaxFinder where they can be routed to a user's email inbox, a network share, or a network printer. Outbound faxes can be submitted via three methods, Multi-Tech's print to fax client (for Windows), a web browser, or any existing email client. FaxFinder fax servers combine quality hardware and software designed to integrate with existing and new telephony systems and IP-based networks, providing reduced costs while enhancing productivity by sending and receiving faxes using existing email and network resources.

Features and Benefits

- Replaces legacy paper-based fax equipment and expensive online subscription services
- Centralizes fax operations to the IT server room
- Supports industry-specific regulations, such as HIPAA and SOX
- Integrates fax with other applications using the open-source web services API
- Send outbound faxes electronically using client software (included), web interface, or existing email client
- Route inbound faxes to email inbox, network folder, or network printer
- Manage network settings and fax settings using administrative software

FaxFinder with ShoreTel Voice Switch

When connected to ShoreTel Voice Switch, the FaxFinder functions as a network fax server with two-way fax service. Multiple extension numbers (DID numbers) are dedicated to incoming fax traffic which is routed to FaxFinder. FaxFinder converts the incoming faxes into graphic files that can be sent as email attachments, to a network share, to a printer, or to trash. Because faxes can be delivered as email, the fax recipient can be at any reachable email address. For example, a sales person can receive faxes while traveling by using a regular company fax number and picking up the email messages remotely. Each fax-dedicated extension number can be associated with a particular email address.

FaxFinder IP Fax Server (FF240-IP)

The FaxFinder IP is a 2-channel SIP Trunk based fax server, which can be upgraded to a 4-, 6-, or 8-channel server based on an organization's needs. The SIP Trunk implementation is SIP via UDP, supporting T.38 and G.711 media. DID information can be in the "SIP To" header or the "SIP Diversion" header.

FaxFinder Analog Fax Servers (FFx40)

The FaxFinder analog fax server is available as a 2-port (FF240), 4-port (FF440), or 8-port (FF840) model, ideal for use in applications that include POTS lines, IP Phone systems with analog station ports, and legacy phone systems. Analog fax models can be expanded up to 24-ports using the FaxFinder Expansion Modules (FFEX8 and FFEX16). DID information is obtained via detecting DTMF tones passed to the FaxFinder by the PBX.

Architecture Overview Using FF240-IP

Call Flow When Receiving Faxes

When the ShoreTel system detects that an inbound call from the PSTN is a fax, ShoreTel routes the call to the SIP trunk that exists between ShoreTel and FaxFinder. FaxFinder answers the call and receives the fax. After the fax transmission completes, FaxFinder delivers the received fax document to the defined destination or destinations. Delivery Destinations are defined within the FaxFinder fax server on a per DID (extension) number basis. A DID number can have one or more destination defined, in any combination of the delivery methods (email, writing to a share or sending to a printer), depending on the inbound routing rules.



Figure 1 – FaxFinder IP Receiving Fax Call Flow Diagram

Call Flow When Sending Faxes

FaxFinder users schedule outbound faxes electronically by submitting PDF or TIFF documents via FaxFinder Client Software, email, or web browser. Windows users can use FaxFinder Client software to fax Microsoft Office documents (a print to fax process that converts the document and allows the user to schedule the outbound fax, define fax to contact details, select a cover page, and set other scheduling options). Users on any platform can use any email client or any web browser to schedule outbound faxes. A scheduled outbound fax resides in the FaxFinder fax server's outbound queue. The FaxFinder fax server processes outbound faxes based on scheduling details defined by the user and by port availability. To initiate the outbound call, the FaxFinder fax server signals to the ShoreTel via the SIP trunk. The ShoreTel system passes the outbound call request to the Public Switched Telephone Network and ultimately to the fax destination (dialed number). After the fax transmission completes, FaxFinder sends a Fax Status report back to the user who submitted the fax (if the user defined this option).



Figure 2 – FaxFinder IP Sending Fax Call Flow Diagram

Certification and Limitations

Version Support

Table 1 - Supported Software Versions

ShoreTel Version	FF240-IP	FFx40
14.2	2 2 7	2 2 7
Build 19.43.1700.0	5.2.7	5.2.7

Special considerations

When using the FF240-IP, use the T.38 protocol when possible. If the ShoreTel switch does not support T.38, then use the G.711 Pass Through configuration. The following ShoreTel switches do not support T.38 protocol:

- ShoreGear 8
- ShoreGear 12
- ShoreGear- 120
- ShoreGear T1
- ShoreGear E1
- ShoreGear TW
- ShoreGear 24 and ShoreGear 24a

Certification Testing Results Summary

FaxFinder IP (FF240-IP) and T.38 Test Cases

Table 2 – Basic feature test cases using T.38 trunk configuration

ID	Name	Description	Results
1.1.1	Sending faxes from FaxFinder to fax machine	ShoreTel Certification Lab uses the FaxFinder Client to fax to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch.	Pass
1.1.2	Receiving faxes from fax machine to FaxFinder and fax delivery	ShoreTel Certification Lab sends a fax from a fax machine via the ShoreGear SIP Proxy switch to the FF240-IP. Verify that the correct extension digits were received on the FaxFinder and that it correctly routed the fax. Verify that the email with the fax was received.	Pass
1.1.3	Sending multi-page documents.	ShoreTel Certification Lab uses the FaxFinder Client to send a 10-page fax to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch. Verify that all pages were received and are of good quality.	Pass
1.1.4	Receiving multi-page documents.	ShoreTel Certification Lab sends a 10-page fax from a fax machine via the ShoreGear SIP Proxy switch to FF240-IP. Verify that all pages were received and are of good quality.	Pass
1.1.5	Sending high resolution image documents.	ShoreTel Certification Lab uses the FaxFinder Client to send a Hi Resolution Image fax to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch. Verify that the received fax has good image quality.	Pass
1.1.6	Receiving high resolution image documents.	ShoreTel Certification Lab sends a high resolution fax image from a fax machine via the ShoreGear SIP Proxy switch to FF240-IP. Verify that the received fax has good image quality.	Pass
1.1.7	Send and Receive Faxes Simultaneously	ShoreTel Certification Lab uses the FaxFinder Client to send a 3-page fax to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch. While the FF240-IP is sending, the ShoreTel Certification Lab also sends a 3- page fax from a fax machine via the ShoreGear SIP Proxy switch to the FF240-IP. Verify that all pages were sent and received, and that the quality of each page was good.	Pass

Table 3 – Fault insertion using T.38 trunk configuration

ID	Name	Description	Results
1.2.1	All FF240-IP channels busy	All channels busy should result in a busy signal to caller.	Pass
1.2.2	IP connectivity failure between ShoreGear SIP Proxy switch and FF240-IP	IP connectivity failure should result in easily recognizable symptoms.	Pass
1.2.3	SMTP connection failure	SMTP delivery failure should not prevent faxes from being transmitted.	Pass

Table 4 – Voice/Fax Redirect using T.38 trunk configuration

ID	Name	Description	Results
1.3.1	Send fax from FF240-IP configured as a SIP server	ShoreTel Certification Lab uses the FaxFinder Client to fax to a fax machine using FF240-IP configured as a SIP Server and the ShoreGear SIP Proxy switch.	Pass
1.3.2	Receive fax with voice/fax redirect and with FF240-IP configured as a SIP Server	With the ShoreTel configured for Voice/Fax Redirect, the ShoreTel Certification Lab sends a Fax from a fax machine via the ShoreGear SIP Proxy switch to the FaxFinder IP. Verify that the correct extension digits were received on the FaxFinder IP, and that it routed the fax correctly. Verify that the email with the fax was received.	Pass
1.3.3	Receive voice call with voice/fax redirect	With the ShoreTel configured for voice/fax redirect, the ShoreTel Certification Lab makes a voice call to the ShoreTel System and verify that the voice call is routed correctly.	Pass

FaxFinder IP (FF240-IP) and G.711 Pass Through Test Cases

T able 5 – Basic feature test cases, us	ing G.711 Pass Tl	hrough SIP trunk	configuration
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ID	Name	Description	Results
2.1.1	Sending faxes from FaxFinder to fax machine	ShoreTel Certification Lab uses the FaxFinder Client to fax to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch.	Pass
2.1.2	Receiving faxes from fax machine to FF240-IP and fax delivery	ShoreTel Certification Lab sends a fax from a fax machine via the ShoreGear SIP Proxy switch to the FF240-IP. Verify that the correct extension digits were received on the FF240-IP, and that it routed the fax correctly. Verify that the email with the fax was received.	Pass
2.1.3	Sending multi-page documents	ShoreTel Certification Lab uses the FaxFinder Client to send a 10-page fax to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch. Verify that all pages were received and are of good quality.	Pass
2.1.4	Receiving multi-page documents	ShoreTel Certification Lab sends a 10-page fax from a fax machine via the ShoreGear SIP Proxy switch to the FF240- IP. Verify that all pages were received and are of good quality.	Pass
2.1.5	Sending high resolution image documents	ShoreTel Certification Lab uses the FaxFinder Client to fax a high resolution image to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch. Verify that the received fax has good image quality.	Pass
2.1.6	Receiving high resolution image documents	ShoreTel Certification Lab faxes a high resolution image from a fax machine via the ShoreGear SIP Proxy switch to the FF240-IP. Verify that the received fax has good image quality.	Pass
2.1.7	Send and receive faxes simultaneously	ShoreTel Certification Lab uses the FaxFinder Client to send a 3-page fax to a fax machine using FF240-IP and the ShoreGear SIP Proxy switch. While the FF240-IP is sending, the ShoreTel Certification Lab also sends a 3-page fax from a fax machine via the ShoreGear SIP Proxy switch to the FF240-IP. Verify that all pages were sent and received, and that the quality of each page was good.	Pass

FaxFinder IP (FF240-IP) with ShoreTel Virtual Switch Test Cases

Table 6 – ShoreTel Virtual Switch

ID	Name	Description	Results
4.1.1	Send T.38 fax	ShoreTel Certification Lab uses the FaxFinder Client to fax to a fax machine using FF240-IP and the ShoreTel Virtual Trunk Switch. Verify that T.38 protocol was used.	Pass
4.1.2	Receive T.38 fax	ShoreTel Certification Lab sends a Fax from a fax machine via the ShoreTel Virtual Trunk Switch to the FF240-IP. Verify that the correct extension digits were received on the FF240-IP and that it routed the fax correctly. Verify that the email with the fax was received. Verify that T.38 protocol was used.	Pass
4.1.3	Send G.711 Pass Through fax	ShoreTel Certification Lab uses the FaxFinder Client to fax to a fax machine using FF240-IP and the ShoreTel Virtual Trunk Switch. Verify that G.711 Pass Through was used.	Pass
4.1.4	Receive G.711 Pass Through fax	ShoreTel Certification Lab sends a fax from a fax machine via the ShoreTel Virtual Trunk Switch to the FF240-IP. Verify that the correct extension digits were received by the FF240-IP and that it routed the fax correctly. Verify that the email with the fax was received. Verify that G.711 Pass Through was used.	Pass

FaxFinder Analog (FF840) and ShoreGear SIP Proxy Switch Test Cases

Table 7 – Basic feature test cases

ID	Name	Description	Results
3.1.1	Sending faxes from FF840 to fax machine	ShoreTel Certification Lab uses the FaxFinder Client to fax to a fax machine using FF840 and the ShoreGear SIP Proxy switch.	Pass
3.1.2	Receiving faxes from fax machine to FaxFinder and fax delivery	ShoreTel Certification Lab sends a fax from a fax machine via the ShoreGear SIP Proxy switch to the FF840. Verify that the correct extension digits were received on the FF840, and that it routed the fax correctly. Verify that the email with the fax was received.	Pass
3.1.3	Sending multi-page documents.	ShoreTel Certification Lab uses the FaxFinder Client to send a 10-page fax to a fax machine using FF840 and the ShoreGear SIP Proxy switch. Verify that all pages were received and are of good quality.	Pass
3.1.4	Receiving multi-page Documents	ShoreTel Certification Lab sends a 10-page fax from a fax machine via the ShoreGear SIP Proxy switch to the FF840. Verify that all pages were received and are of good quality.	Pass
3.1.5	Sending high resolution image documents	ShoreTel Certification Lab uses the FaxFinder Client to fax a high resolution image to a fax machine using FF840 and the ShoreGear SIP Proxy switch. Verify that the received fax has good image quality.	Pass
3.1.6	Receiving high resolution image documents	ShoreTel Certification Lab faxes a high resolution image from a fax machine via the ShoreGear SIP Proxy switch to the FF840. Verify that the received fax has good image quality.	Pass
3.1.7	Send and receive faxes simultaneously	ShoreTel Certification Lab uses the FaxFinder Client to send a 3-page fax to a fax machine using FF840 and the ShoreGear SIP Proxy switch. While the FF840 is sending, the ShoreTel Certification Lab also sends a 3-page Fax from a fax machine via the ShoreGear SIP Proxy switch to the FF840.Verify that all pages were sent and received, and that the quality of each page was good.	Pass

Table 8 – Fault insertion test cases

ID	Name	Description	Results
3.2.1	All ports busy on FaxFinder	All ports busy should result in a busy signal to caller.	Pass
3.2.2	Connectivity failure between ShoreGear SIP Proxy switch and FF840	Connectivity failure should result in easily recognizable symptoms.	Pass
3.2.3	SMTP connection failure	SMTP delivery failure should not prevent faxes from being transmitted.	Pass

Multi-Tech Overview and Contact Information

Multi-Tech Systems manufactures award-winning external and embedded modems and Unified Communications products that allow users to connect data over cellular and analog networks from anywhere in the world. As an industry leader for over 40 years, Multi-Tech's reputation for reliability and innovative design is evident with 80+ patents, 20+ million devices being used by thousands of customers worldwide, and certifications from more than 30 carriers and over 80 countries.

For general sales questions, please contact your reseller or contact Multi-Tech Systems directly at 800.328.9717

FaxFinder IP (FF240-IP) Fax Applications

Application 1 – One Main Number for Both Voice and Fax – Fax Redirect

In this application, one main number receives all fax and voice communications. The ShoreTel system manages all incoming fax communications, routing them via SIP Redirect Method to the FaxFinder 240-IP. The FaxFinder then routes the fax according to the FaxFinder's inbound routing configuration.

Note: Enable a ShoreGear SIP Proxy switch to be the SIP proxy for the site where you want to add the SIP UM server. This switch is referred to as the site SIP proxy switch.

ShoreTel Configuration

Use this section describes the ShoreTel system configuration to support Voice/Fax Redirect using the FaxFinder IP. Follow configuration steps in the order listed.

Configuring the SIP Profile

The first step is to configure the SIP Profile settings for the ShoreTel system:

1. Go to Administration > SIP Servers > SIP Profiles.



2. Click New to enter SIP Server information.



3. Enter the SIP profile information as desribed in the SIP Profile Details table. Fields are case sensitive.

- 4. Save changes.
- **Note:** Do not disable the default SIP Profiles. Disabling the system profiles may keep ShoreTel from adding FaxFinder to the system. Refer to the *ShoreTel Administration Guide* for more information.

Field	Description
Name	Label the Director uses to refer to the profile
User Agent	The name ShoreWare uses to identify devices covered by the profile. SIP servers do not use this. Required, you can't save the profile without a value in this field. You can define it as period asterisk (.*).
Priority	Lists the profile status. Leave the default value of 100.
Enabled	Check this box to enable the profile. The default is unchecked (disabled).
System Parameters	Device characteristics and default settings.
Custom Parameters	Lists additional device settings or overwrites default settings listed in System Parameters. These are case sensitive and should be set as follows: acceptMWI=notify Accept302=sip HoldSupport=no AddrSupport=diversion EnableSymmetricDtmf=yes UseSipProxyOut=yes OAEMedialessPort=8600 AllowedCodecs=PCMU/8000 OptionsPing=0

SIP Profile Details

Configuring the FaxFinder as a SIP UM Server

To configure the FaxFinder as a SIP UM Server:

1. Go to Administration > SIP Servers > SIP Servers.



2. Click New. New SIP Server displays.

Name:	FaxFinder IP					
Site:	Headquarters V					
Protocol:	UDP V					
Host (Name / Address / Domain):	172.16.2.205 Ping					
Override Default Port:	5060					
Allow External Voice Mail for Extension-Only User						
☑ Allow Fax Redirect to This Server						
Extension:	165					
Assigned User Group:	Executives V					
SIP Profile:	FaxFinder IP V					
Digest Authentication:	<none> V</none>					
Username:						
Password:						
<u>S</u> ave (Cl <u>o</u> se Pre <u>v</u> ious Ne <u>x</u> t					
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- 3. Enter the **SIP Server** information for the new server as described SIP Server table.
- 4. Click Save to store your changes

SIP Server Information

Field	Description
Name:	Enter an appropriate descriptive server name
Site:	Select the appropriate site location
Protocol:	Select UDP
Host (Name/Address/Domain):	Enter the IP address of the FaxFinder IP server
Override Default Port:	Enter 5060
Allow Ext. Voice Mail for Extension-Only User	Leave unchecked
Allow Fax Redirect to This Server	Check this parameter
Extension:	The system will automatically assign the next available extension, however you can define a different unused extension.
Assigned User Group:	Assign an appropriate user group that has access to the necessary trunks, in this example we selected the "Executives" user group.
SIP Profile:	Enter the SIP profile created in previous step.
Digest Authentication:	Leave this as <none></none>
User ID:	Leave blank
Password:	Leave blank

Enabling SIP Proxy Ports on ShoreGear Switch

To allocate proxy ports for SIP extensions:

1. Go to Administration > Platform Hardware > Voice Switches / Service Appliances > Primary.

ShoreTe l	F	Primary Vo	ice Switc	hes / Service /	Appliances					
Director		dd now ou	itch/app	lianaa at aita.	Headquartere	V of types	ShoreGear vTr	unk Swi	tch V	Co
Build 19.43.1700.0 Logoff John Smith		tuu new sw	ncn/app	nance at site.	Treadquarters	• or type.	ShoreGear VII	unk Swi	en •	<u>60</u>
Administration • Users • Trunks	N	lame	Quick Launch	Description	Site	Server	Database Server	Туре	IPAddress	MAC Address
IP Phones Distform Usedware	<u>S</u> 30	<u>horegear</u> 0		Shoretel Switch	Headquarters	Headquarters		SG-30	172.16.2.207	00-10-49-19-3C-{
• Voice Switches /	<u>s</u>	oftSwitch		SoftSwitch	Headquarters	Headquarters	Headquarters	SW	172.16.2.208	
Service Appliances Primary	12									
 Spare Conference Bridges 	<u>e</u>	1998-2013 Sh	oreTel, Inc.	All rights reserved.						

2. Click a switch name to configure that switch. Edit Switch displays. In the image, the ShoreGear 30 switch was selected.

ShoreTe l	Voice Switches Edit ShoreGear 30 Switch	New	<u>C</u> opy <u>Save</u>	Delete	leset	<u>Help</u>
Director Build 19.43.1700.0	Edit this record	Refresh this page	2			
Logoff John Smith	Name:	Shoregear 30				
Users	Description:	Shoretel Switch				
Trunks IP Phones	Site:	Headquarters				
Platform Hardware Voice Switches /	IP Address:	172.16.2.207	Find Switches	6		
Service Appliances Primary	Ethernet Address:	00-10-49-19-3C-8A				
 Spare Conference Bridges 	Server to Manage Switch:	Headquarters 🗸				
Call Control Voice Mail	Caller's Emergency Service Identification (CESID	0	(e.g. +1 (408) 331	-3300)		
Auto-Attendant Menus	Built-in Capacity:	IP Phone + SIP T	Frunk = Total			
Workgroups Schedules		0 + 8	= 8 of 10 (40 SIP p	roxy ports)		
Communicator	Enable Jack Based Music On Hold					
Application Servers	Jack Based Music On Hold Gain (-49 to 13):	0 dB				
 SIP Servers Sites 	Line Anales Extension Barts as DID Trucks					
System Parameters	Ose Analog Extension Ports as DID Trunks					
• Freierences		ShoreTel 3100000				
Maintenance		(annumber)	0			
Monitoring	Shoregear 30		11 12			
Quick Look Connectivity	energea. ee	° (minim				
Voice Mail Servers Make Me Conferencing				_		
Audio / Web	Port Port Type Trun	k Group	Description	Jack Numb	ber	Location
• IM	1 Available V	\sim	P01			
Event Filters	2 Available V	\sim	P02			
HQ Services	11 Edit Extension V	\sim	John Smith			
Reporting	12 Edit Extension V	~	Jane Doe			
Reports Options	© 1998-2013 ShoreTel, Inc. All rights reserved,					

- 3. Change one Available Port Types to **100 SIP Proxy**.
- 4. Click Save.
- **Note:** If the ShoreGear switch you select has built-in capacity for IP phones and SIP trunks (for example, ShoreGear 50/90/220T1/E1), you can also remove 5 ports from the total number available to provide the 100 SIP Proxy configuration necessary.

For every 5 ports that you remove from the total available, the system will make 100 SIP Proxy ports available.

One dedicated ShoreGear 120 switch can act as a proxy for the entire site and support up to 2400 SIP phones.

Modifying Individual Users for Fax – Creating a SIP Extension

To redirect a user's fax calls to the FaxFinder server:

1. Go to Administration > Users > Individual Users.

ShoreTe l	Individual U	Jsers								<u>Help</u>
Director	Add new us	ser at site: H	eadquarters 🗸	Go						
Build 19.43.1700.0	Show page	: 1 : Jane - Jo	hn	×		2 Record	Is 25 🗸	perpage <u>Ex</u>	port to [Excel
Logoff John Smith	First Name	Last Name	Site	User Group	Access License	Extension	Mailbox	Switch	Port	Status
Administration	Jane	Doe	Headquarters	Executives	Personal	116	116	Shoregear 30	12	Home
• Individual Users	<u>John</u>	Smith	Headquarters	Executives	Personal	115	115	Shoregear 30	11	Home
Oser Groups Class of Service Anonymous Telephones Extension Lists Batch Update Utility Call Handling Mode Defaults	<u>© 1998-2013 Sh</u>	oreTel, Inc. All rig	hts reserved.							

- 2. To redirect fax calls to FaxFinder for an existing user, click that user's **First Name**. For a new user, click any existing user name and then click **New**.
- 3. For Fax Support, select User Redirect from the drop down list.



- 4. Click Save.
- 5. Repeat these steps for each user whose calls you want redirected to FaxFinder.

Modifying the Site Settings

To administer the sites:

1. Go to **Administration > Sites**.



2. To configure an existing site, click the site name where users will use the fax service. In the example, Headquarters is the site where users are located.

To create a new site, select the site location in **the Add new site** drop down and click **Go**. Enter a name for the site.

Edit Site	New	Сору	Save	Delete	Reset	1101
Edit this record	Refresh this page	1				
Name:	Headquarters					
Service Appliance Conference Backup Site:	<none> V</none>					
Country:	United States of A	merica 🗸				
Language:	English(US) V					
Parent:	Top of Tree					
Use Parent As Proxy						
Local Area Code:	408					
Additional Local Area Codes:	Edit					
Caller's Emergency Service Identification (CESID):		(e.g. +1	(408) 331-	3300)		
Time Zone:	(UTC-06:00) Centr	al Time (US & C	anada), Cen	tral Standard Tin	ne	~
Night Bell Extension:		1				
Night Bell Switch:	None V	Edit Night Bel	I Call Hand	ling		
Paging Extension:				1000		
Paging Switch:	None V					
Operator Extension:		Searc	h			
FAX Redirect Extension:	165 : FaxFinder IP	Searc	h 🖌			
SMTP Relay:		Ping				_
Network Time Protocol Server:	<u> </u>					
Bandwidth						
Admission Control Bandwidth:	1544	kbps				
Intra-Site Calls:	FaxCodecs - Cust	om		~		
Inter-Site Calls:	FaxCodecs - Cust	om	8	~		
FAX and Modern Calls:	Fax Codecs - High	a Bandwidth		~		
SIP Proxy:						
Virtual IP Address:						
Proxy Switch 1:	Shoregear 30 💙					
Proxy Switch 2:	None V	-				
Emergency Number List						
Trunk Access Code Required	911	Add	More			
Edit IP Phone Address Map						

- **3.** In the **Fax Redirect Extension** field, click **Search** and select the FaxFinder server created earlier. In the example, the fax redirection number is the SIP UM server extension created earlier, 165: FaxFinder IP.
- 4. For Proxy Switch 1, select the ShoreTel SIP Proxy Switch.
- 5. Click Save.
- **Note:** Bandwidth of 1544 is just an example. Please refer to the ShoreTel Planning and Installation Guide for additional information on setting Admission Control Bandwidth.

For additional details on configuring SIP Proxy or Virtual IP Address, refer to the ShoreTel Administration Guide.

Configuring Codecs for T.38 or G.711 Pass Through

Configure the ShoreTel system for either T.38 or G.711 Pass Through. T.38 is recommended, but in cases using full-width switches, please consider using G.711 Pass Through Configuration, as T.38 is not supported on legacy full-width switches. For more information, please refer to <u>ShoreTel T.38 Configuration</u> or <u>G.711 Pass Through</u> <u>Configuration</u>.

Application 2 – User with a Unique Voice Extension and a Unique Fax Extension

ShoreTel requires that the user or voicemail answer the call in order to redirect the fax call to the proper fax extension. Rather than receiving a call with fax tones, you may prefer to have fax calls go to a separate fax number (DNIS/DID) that routes fax calls directly to FaxFinder. FaxFinder then delivers the fax to the user's email.

If you require a fax number that is different from the voice number, configure the ShoreTel system and FaxFinder for SIP trunks using Off System Extensions (OSEs) rather than a SIP UM server.

ShoreTel Configuration

Use this section to configure the ShoreTel system for faxing using SIP Trunks and Off System Extensions (OSEs).

Configuring Switch Settings to Allocate Ports for SIP Trunks

To modify switch settings:

1. Login to ShoreWare Director and go to Administration > Switches > Primary. Primary Switches appears.



_ _

2. Click a switch name to configure that switch. Edit ShoreGear displays.

Switches

Edit ShoreGear 30 Switch	<u>N</u> ew <u>Copy</u> <u>Save</u> <u>Delete</u> <u>R</u> eset				
Edit this record	Refresh this page				
Name:	ShoreGear 30				
Description:	ShoreTel PBX				
Site:	Headquarters				
IP Address:	172.16.2.207 Find Switches				
Ethernet Address:	00-10-45-19-3C-8A				
Server to Manage Switch:	Headquarters				
Caller's Emergency Service Identification (CE	ESID): (e.g. +1 (408) 331-3300)				
Built-in Capacity:	IP Phone + SIP Trunk = Total				
	1 + 8 = 9 of 10 (20 SIP proxy ports)				
Music On Hold Source					
Music On Hold Gain (-49 to 13):	0 dB				
Use Analog Extension Ports as DID Trun	ks				
	ShoreTel				
LAN 2 MAINT	1 2 11 12				
ShoreGear 30					
Port Port Type T	runk Group Description Jack Number				
1 Edit Trunk 🔻 A	Analog Loop Start - 7637175135				
2 Available 🔻	Unconnected?				
11 Edit Trunk 🔻 D	DID Trunk DID_11				
12 Edit Trunk 🔻	DID Trunk DID_12				

3. Select the number of SIP trunks from the ports available. Each port designated as a SIP trunk port type enables the support for five individual SIP trunks.

Note: ShoreTel trunk groups only support Static IP Address SIP endpoint Individual Trunks.

Changing Trunk Group Settings

1. Go to **Administration > Trunks > Trunk Groups**. Trunk Groups displays.

ShoreTe l [®]	Trunk Groups						Help
Director	Add now trunk are	un at aitar Haar	lauartere 🗙	ftung.	Analor		
Build 19.43.1700.0	Add new dulik gro	oup at site. Incat	iquariera 🕈 (n type. [-	Anaioş	, 010 +	<u> </u>
Logoff John Smith	Name	Туре	Site	Trunks	DID	Destination	Access Code
Administration	Analog Loop Start	Analog Loop Start	Headquarters	0	No	700	9
• Users	 Digital Loop Start	Digital Loop Start	Headquarters	0	No	700	9
 Irunks Individual Trunks 	Digital Wink Start	Digital Wink Start	Headquarters	0	No	700	9
• Trunk Groups	FaxFinder IP	SIP	Headquarters	8	Yes	700	8
 SIP Profiles 							
 ISDN Profiles Local Prefixes 	© 1998-2013 ShoreTel, I	nc. All rights reserved.					

- 2. Select a site to configure from the Add new trunk group at site drop down list.
- 3. Select SIP from the of type drop down list.
- 4. Click Go. Edit SIP Trunk Group displays.

Trunk Groups Edit SIP Trunk Group	New Copy Save Delete Reset
Edit this record	Refresh this page
Name:	FaxFinder IP
Site:	Headquarters
Language:	English(US) 🗸
Enable SIP Info for G.711 DTMF Signaling	
Profile:	Default Tie Trunk 🗸
Digest Authentication:	<none> V</none>
Username:	
Password:	

- 5. Enter a trunk group name in the **Name** field.
- 6. Verify that Enable SIP Info for G.711 DTMF Signaling is not checked. This is only used with SIP tie trunks between ShoreTel systems.
- 7. Leave the Profile field at **Default Tie Trunk** and the Digest Authentication at **<None>.**

Inbound:	
Number of Digits from CO:	3
	Edit DNIS Map
	Edit DID Range
✓ Extension	
● Translation Table: None> ∨	
O Prepend Dial In Prefix:	
O Use Site Extension Prefix	
✓ Tandem Trunking	
User Group:	Executives V
Prepend Dial In Prefix:	
Destination:	700 : Default Search

- 8. Set the **Number of Digits from CO** to match what the ShoreGear SIP trunk switch receives from this public network. This is usually configured to match the systems extension length.
- **9.** Verify that **Extension** and **Tandem Trunking** are checked. For additional information on these parameters refer to ShoreTel's Planning and Installation Guide.
- 10. Check Outbound.

7 Outbound:	
Network Call Routing:	
Access Code:	8
Local Area Code:	763
Additional Local Area Codes:	Edit
Nearby Area Codes:	Edit
Billing Telephone Number:	(e.g. +1 (408) 331-3300)
Trunk Services:	
✓ Local	
✓ Long Distance	
✓ International	
Enable Original Caller Information	
In11 (e.g. 411, 611, except 911 which is specified below)	
Emergency (e.g. 911)	
Easily Recognizable Codes (ERC) (e.g. 800, 888, 900)	
Explicit Carrier Selection (e.g. 1010xxx)	
✓ Operator Assisted (e.g. 0+)	
Caller ID not blocked by default	
Enable Caller ID (Please confirm with the Carrier(s) or the	Service Provider(s) on how the end-to-end caller name is delivered
When Site Name is used for the Caller ID, overwrite it with	

- **11.** Enter the trunk **Access Code** and **Local Area Code**.
- **12.** Check **Caller ID not blocked by default.** This determines if the call is sent out as <unknown> or with caller information (Caller ID).
- **13.** Click **Save**, so that you can define an Off System Extension. You will be prompted to give all user groups access to this newly created trunk group.
- 14. Click Cancel; you do not need to grant access as connectivity is through Off System Extensions

Windows Internet Explorer				
?	Please click on OK to give all existing User Groups access to this new trunk group, or click on Cancel to save the Trunk Group without enabling access. Users will not be able to make calls with the Trunk Group until their User Group is given access.			
	Cancel			

Granting User Groups Access to New Trunk Group

The Off System Extension range can be any extension not currently in use on the ShoreTel system. To define an Off System Extension range, scroll to the Trunk Digit Manipulation section and to the following:

Trunk Digit Manipulation:	
Remove leading 1 from 1+10D	
Hint: Required for some long distance service providers.	
Remove leading 1 for Local Area Codes (for all prefixe	s unless a specific local prefix list is provided below)
Hint: Required for some local service providers with over	ay area codes.
☑ Dial 7 digits for Local Area Code (for all prefixes unless	s a specific local prefix list is provided below)
Hint: Local prefixes required for some local service provid	lers with mixed 7D and 1+10D in the same home area.
Dial in E.164 Format	
Local Prefixes:	None V Go to Local Prefixes List
Prepend Dial Out Prefix:	
Off System Extensions:	Edit
Translation Table:	<none> V</none>

1. Click **Edit** for Off System Extensions field.

Off System Extension Ranges Webpage D						
http://172.16.2.208/shorewaredirector/off_system_ext						
Range:						
121 to 128	New					
	Edit					
	Remove					
Cancer						
😻 Internet Protected Mode: On						

2. Click New to open the New Range page.

🖉 New Range Webpage Dialog 📃 🎫
http://172.16.2.208/shorewaredirector/off
First: Last: OK Cancel
😜 Internet Protected Mode: On

- **3.** Define a single extension range that is within your ShoreTel PBX extensions. This range must match the extension range of the users defined on the FaxFinder IP server.
- 4. Click OK.
- **Note:** Each individual Off System Extension will be an individual user's fax destination. Be certain to add a sufficient OSE range to cover all the individual users that require faxing capabilities.

Configure Individual Trunks

To configure the individual trunks:

1. Go to Administration > Trunks > Individual Trunks.

Trunks by Group							
Add new trunk at site: Headquarters 🗸 in trunk group: Analog Loop Start 🗸 Go							
Show page: 1 : FaxFinder IP - FaxFinder IP (7) V II V 8 Records 25 V per page							
Delete							
Name	Group	Туре	Site	Switch	Port/Channel	SIP IP Address	
FaxFinder IP	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IP (1)	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IP (2)	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IP (3)	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IP (4)	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IP (5)	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IP (6)	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IP (7)	FaxFinder IP	SIP	Headquarters	Shoregear 30	0	172.16.2.206	

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- 2. Select the site where you want to add the trunk from the Add new trunk at site drop down list.
- 3. Select the **trunk group** from the drop down list.
- 4. Click **Go** to display the Edit Trunk window.

Trunks Edit Trunk	<u>N</u> ew <u>Copy</u> Save <u>D</u> elete <u>R</u> eset
Edit this record	Refresh this page
Site:	Headquarters
Trunk Group:	FaxFinder IP
Name:	FaxFinder IP (1)
Switch:	Shoregear 30 🗸
IP Address:	172.16.2.206

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- 5. Enter a trunk **Name**. We recommend that you give individual trunks the same name as the trunk group so you can easily track the trunk type.
- 6. Select the ShoreGear switch that you defined to have SIP trunks from the Switch drop down list.
- 7. Enter the FaxFinder's IP Address.
- 8. Click Save to commit the changes.

After setting up the trunk groups and individual trunks, refer to the ShoreTel Planning and Installation Guide to make the appropriate changes for the User Group settings.

Configure Codecs for T.38 or G.711 Pass Through

Configure the ShoreTel system for either T.38 or G.711 Pass Through. T.38 is recommended, but in cases using full-width switches, please consider using G.711 Pass Through Configuration, as T.38 is not supported on legacy full-width switches. For more information, please refer to <u>ShoreTel T.38 Configuration</u> or <u>G.711 Pass Through</u> <u>Configuration</u>.

Application 2 – Virtual Trunk Switch (alternate configuration)

ShoreTel Virtual Trunk Switch requires you to deploy a virtual device using a VMware vSphere client on a vSphere ESXi server. For details, refer to *Virtual Switches and Service Appliances* in the *ShoreTel 14.2 Install Guide*. Below are some of the steps used for configuring the ShoreTel Virtual Trunk Switch from that guide.

Installing a Virtual Device

To install a virtual device, follow these steps:

- 1. Create a virtual machine (VM) for the switch and allocate the required resources, depending on the capacity of the virtual phone or virtual trunk switch you want to create.
 - 250, 500, or 1000 IP phones
 - 100, 250, or 500 SIP trunks
- 2. Run vSphere Client and connect to an EXSi server, version 5.0 or higher.
- 3. Select File > Deploy OVF/OVA.
- 4. Enter the URL to the OVA file for the type of device you want to install and click Next.
 - To install a ShoreTel Virtual Phone and Virtual Trunk Switch, enter the following URL: http:<HQ or DVS IP address>/ftproot/tsv/BareMetalInstall.ova
 - To install a ShoreTel Virtual Service Appliance, enter the following URL: http:<HQ or DVS IP address>/ftproot/tsu/VMWareShoreTelVSA.ova
- 5. Enter virtual switch name and click Next.
- 6. On the Storage page, highlight the datastore1 hard drive and click Next.
- 7. On the Disk Format page, accept the default option, Thick Provision Lazy Zeroed, and click Next.
- 8. On the Ready to Complete page, check **Power On after deployment**.
- 9. Following the on-screen instructions to finish installing.

The installation process creates a virtual machine with the default hardware configuration. For details, refer to *Default Configurations* in the *ShoreTel 14.2 Install Guide*.

Note: The ShoreTel system analyzes the allocated resources and determines the capacity of the switch. To change the capacity of the switch, you must change the allocated VM resources.

You can also download the OVA file directly from ShoreTel Director. Click Download switch image from the Edit ShoreGear vPhone Switch or Edit ShoreGear vTrunk Switch page.

You can only increase the disk size before you power on the virtual machine. If you need to have more disk space for conference recording, you must change it before you power on the virtual machine.

- **10.** Power on the virtual machine.
- **11.** Open the console on the virtual switch you want to configure and log in with the following credentials:
 - User ID: root
 - Password: ShoreTel
- 12. Enter DHCP and server IP information that the server uses to download firmware updates.
- **13.** Restart the virtual switch.

The updated firmware begins downloading and installing automatically. After the firmware upgrade completes, the virtual machine reboots automatically.

- **14.** When the virtual switch comes back online, open its console and log in using the previous credentials.
- **15.** To open ShoreTel parameters, enter **stcli**.
- 16. Record the IP address and MAC address, which you'll need to configure the virtual switches.
- **17.** Configure the virtual device.
 - To configure virtual switches, refer to *Configuring Voice Switches* in the *ShoreTel System Administration Guide*.
 - To configure virtual Service Appliances, refer to *Configuring the Service Appliance* in the *ShoreTel Conferencing and Instant Messaging Planning and Installation Guide.*

Configure ShoreGear vTrunk Switch

To configure the Virtual Trunk Switch, first add a new ShoreGear vTrunk Switch to the site and then create a trunk group with individual trunks.

To Create ShoreGear vTrunk Switch:

1. Go to Administration > Platform Hardware > Voice Switches/Services Appliances > Primary.

ShoreTe l		Primary Voice Switches / Service Appliances								
Director		Add new switch/appliance at site. Headquarters V of type: ShoreGear vTrunk Switch								
Build 19.43.1700.0 Logoff John Smith		Aud new Sv	dd new switch/appnance at site: Treadduarers V Of type: ShoreGeal Vitunk Switch							
		Name	Quick	Description	Site	Server	Database Server	Туре	IPAddress	MAC Address
Administration	~	Shoregear	Launch	Description	Jite	Jerver	Jerver	Type	II Address	MAC Address
Users Trunks		30		Shoretel Switch	Headquarters	Headquarters		SG-30	172.16.2.207	00-10-49-19-3C-8
• IP Phones		SoftSwitch		SoftSwitch	Headquarters	Headquarters	Headquarters	SW	172.16.2.208	
 Platform Hardware Voice Switches / 		vTrunk Switch		Virtual Trunk Switch	Headquarters	Headquarters		SG-vTrunk	172.16.0.37	00-0C-29-99-7A-[
Service Appliances Primary										
Spare Oconference Bridges Oconference Bridges										

- 2. Select where you want to create a vTrunk from the Add new switch/appliance at site drop down list.
- 3. Select ShoreGear vTrunk Switch from the of type drop down list.
- 4. Click Go. The Edit ShoreGear vTrunk Switch window displays.

Voice Switches Edit ShoreGear vTrunk SwitchNewCopySaveDeleteReset					
Edit this record	Refresh this page				
Name:	vTrunk Switch Download switch image				
Description:	Virtual Trunk Switch				
Site:	Headquarters				
IP Address:	172.16.0.37 Find Switches				
Ethernet Address:	00-0C-29-99-7A-D6				
Server to Manage Switch:	Headquarters 🗸				
Built-in SIP Trunk Capacity:	100				

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- 5. Enter a unique name and a description for the ShoreGear vTrunk Switch.
- 6. Set the **IP Address** and **Ethernet Address** to the values that you set while installing the Virtual Device. To do this, click **Find Switches** and select the Virtual Device.
- 7. Make sure the Site and Server to Manage Switch fields are set to your site.
- 8. Click Save.

Configure Trunk Group for ShoreGear vTrunk Switch

To add a new Trunk Group for ShoreGear vTrunk Switch:

1. Go to Administration > Trunks > Trunk Groups.

Shore Tel [®]		Trunk Group	s					Help
Director Build 19.43.1700.0		Add new trun	k group at site:	Headquarters	✓ of ty	pe:	SIP	✓ <u>Go</u>
Logoff John Smith		Name	Туре	Site	Trunks	DID	Destination	Access Code
Users Trunks	^	Analog Loop Start	Analog Loop Start	Headquarters	0	No	700	9
 Individual Trunks Trunk Groups 		Digital Loop Start	Digital Loop Start	Headquarters	0	No	700	9
• SIP Profiles		Digital Wink Start	Digital Wink Start	Headquarters	0	No	700	9
 Local Prefixes 		FaxFinder IP	SIP	Headquarters	8	Yes	700	8
 IP Phones Platform Hardware O Voice Switches / 		© 1998-2013 Shor	eTel, Inc. All rights res	erved.				

- 2. Select where you want to create a Trunk Group from the Add new trunk group at site drop down list.
- 3. Set the of type option to SIP.

4. Click Go.

Trunk Groups Edit SIP Trunk Group	New Copy Save Delete Reset
Edit this record	Refresh this page
Name:	FaxFinder Virtual Group
Site:	Headquarters
Language:	English(US) V
Enable SIP Info for G.711 DTMF Signaling	
Profile:	Default Tie Trunk
Digest Authentication:	<none> V</none>
Username:	
Password:	

- 5. Enter a trunk group Name.
- 6. Verify that Enable SIP Info for G.711 DTMF Signaling is not checked. This is only used with SIP tie trunks between ShoreTel systems.
- 7. Leave the Profile field at **Default Tie Trunk** and the Digest Authentication at **<None>.**
- 8. Set the **Number of Digits from CO** to match what the ShoreGear SIP trunk switch receives from this public network. This is usually configured to match the systems extension length.
- 9. Verify that **Extension** and **Tandem Trunking** are checked. For additional information on these parameters refer to *ShoreTel's Planning and Installation Guide*.
- 10. Check Outbound.

~	Outbound:						
	Network Call Routing:						
	Access Code:	9					
	Local Area Code:	651					
	Additional Local Area Codes:	Edit					
	Nearby Area Codes:	Edit					
	Billing Telephone Number:	(e.g. +1 (408) 331-3300)					
	Trunk Services:						
	✓ Local						
	Long Distance						
	✓ International						
	Enable Original Caller Information						
	In11 (e.g. 411, 611, except 911 which is specified below)						
	Emergency (e.g. 911)						
	Easily Recognizable Codes (ERC) (e.g. 800, 888, 900)						
	Explicit Carrier Selection (e.g. 1010xxx)						
	✓ Operator Assisted (e.g. 0+)						
	Caller ID not blocked by default						
	Enable Caller ID (Please confirm with the Carrier(s) or the	Service Provider(s) on how the end-to-end caller name is delivered)					
	When Site Name is used for the Caller ID, overwrite it with:						
	Trunk Digit Manipulation:						
	Remove leading 1 from 1+10D						
	Hint: Required for some long distance service providers.						
	Remove leading 1 for Local Area Codes (for all prefixes un	ess a specific local prefix list is provided below)					
	Hint: Required for some local service providers with overlay an	ea codes.					
	Dial 7 digits for Local Area Code (for all prefixes unless a specific local prefix list is provided below)						
	Hint: Local prefixes required for some local service providers v	vith mixed 7D and 1+10D in the same home area.					
	Dial in E.164 Format						
	Local Prefixes:	None V Go to Local Prefixes List					
	Prepend Dial Out Prefix:						
	Off System Extensions:	Edit					
	Translation Table:	<none> V</none>					

- 11. Enter the trunk Access Code and Local Area Code.
- Check Caller ID not blocked by default. This determines if the call is sent out as <unknown> or with caller information (Caller ID).
- **13.** Click **Save**, so that you can define an Off System Extension. You will be prompted to give all user groups access to this newly created trunk group.
- 14. Click **Cancel**; you do not need to grant access as connectivity is through Off System Extensions.



Grant User Groups access to new Trunk Group

The Off System Extension range can be any extension not currently in use on the ShoreTel system. To define an Off System Extension range, scroll to the Trunk Digit Manipulation section and to the following:

Trunk Digit Manipulation:	
Remove leading 1 from 1+10D	
Hint: Required for some long distance service pro	viders.
Remove leading 1 for Local Area Codes (for all	I prefixes unless a specific local prefix list is provided below)
Hint: Required for some local service providers with	ith overlay area codes.
Dial 7 digits for Local Area Code (for all prefixe	s unless a specific local prefix list is provided below)
Hint: Local prefixes required for some local service	e providers with mixed 7D and 1+10D in the same home area.
Dial in E.164 Format	
Local Prefixes:	None V Go to Local Prefixes List
Prepend Dial Out Prefix:	
Off System Extensions:	Edit
Translation Table:	<none> V</none>

1. Click Edit for Off System Extensions field.

Ø Off System Extension Ranges We	bpage D 🛛 🔀
http://172.16.2.208/shorewaredirec	tor/off_system_ext
Range:	
121 to 128	New
	Edit
	Remove
OK Cancel	
Internet Protected Mode: On	

2. Click **New** to open the New Range page.

💋 New Range Webpage Dialog 📃 🔀
http://172.16.2.208/shorewaredirector/off
First. Last. OK Cancel
Internet Protected Mode: On

- 3. Define a single extension range that is within your ShoreTel PBX extensions. This range must match the extension range of the users defined on the FaxFinder IP server.
- 4. Click OK.

Note: Each individual Off System Extension will be an individual user's fax destination. Be certain to add a sufficient OSE range to cover all the individual users that require faxing capabilities.

Configure Individual Trunks

To configure the individual trunks:

1. Go to Administration > Trunks > Individual Trunks.

Trunks by Group Hel							
Add new trunk at site: Headquarters 💙 in trunk group: Analog Loop Start 🗸 Go							
Show page: 1 : FaxFinder IP - FaxFinder IP (7) V I A P I 8 Records 25 V per page							
Delete							
Name	Grou	ір Туре	Site	Switch	Port/Channel	SIP IP Address	
FaxFinder IF	E FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IF	P(1) FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IF	P(2) FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IF	P(3) FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IF	P (4) FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IF	P (5) FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IF	P (6) FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	
FaxFinder IF	P(7) FaxF	inder IP SIP	Headquarters	Shoregear 30	0	172.16.2.206	

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- 2. Select the site where you want to add the trunk from the Add new trunk at site drop down list.
- 3. Select the trunk group from the drop down list.
- 4. Click Go to display the Edit Trunk window.

Trunks Edit Trunk	<u>N</u> ew <u>Copy</u> <u>Save</u> <u>D</u> elete <u>R</u> eset
Edit this record	Refresh this page
Site:	Headquarters
Trunk Group:	FaxFinder IP
Name:	FaxFinder IP (1)
Switch:	Shoregear 30 🗸
IP Address:	172.16.2.206

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- 5. Enter a trunk **Name**. We recommended that you give individual trunks the same name as the trunk group so you can easily track the trunk type.
- 6. Select the ShoreGear switch that you defined to have SIP trunks from the Switch drop down list.

- 7. Enter the FaxFinder's IP Address.
- 8. Click Save to commit the changes.

After setting up the trunk groups and individual trunks, refer to the *ShoreTel Planning and Installation Guide* to make the appropriate changes for the User Group settings.

Configure Codecs for T.38 or G.711 Pass Through

Configure the ShoreTel system for either T.38 or G.711 Pass Through. T.38 is recommended, but in cases using full-width switches, please consider using G.711 Pass Through Configuration, as T.38 is not supported on legacy full-width switches. For more information, please refer to <u>ShoreTel T.38 Configuration</u> or <u>G.711 Pass Through</u> <u>Configuration</u>.

ShoreTel T.38 Configuration

This section describes how to setup ShoreTel for T.38 faxing. T.38 is the recommended codec for faxing; use it if the ShoreTel Switch supports it. When configuring for T.38 faxing, the Codec Lists should include T.38.

Create Custom Codec List

1. Login to ShoreWare Director and go to Administration > Call Control > Codec Lists.

ShoreTel	Codec Lists Help
Director	Codec Group List 0 records checked. Delete New
Build 19.43.1700.0 Logoff John Smith Administration • Users • Trunks • IP Phones • Platform Hardware • Call Control • Account Codes • Bridged Call Appearances • Hunt Groups • Music On Hold • Paging Groups • Pickup Groups • Route Points • Supported Codecs • Codec Lists • Ontions	Description Fax Codecs - High Bandwidth Fax Codecs - High Bandwidth Passthrough Fax Codecs - Low Bandwidth Fax Codecs - Low Bandwidth Passthrough High Bandwidth Codecs Low Bandwidth Codecs Medium Bandwidth Codecs Very High Bandwidth Codecs Very Low Bandwidth Codecs Very Low Bandwidth Codecs Very Low Bandwidth Codecs

2. Click New to create a new codec list.

Codec Lists Edit Codec Lists	New C	opy <u>S</u> ave	Delete	<u>R</u> eset	<u>Help</u>
	Defrech this serve			* modified	
Name:	FaxCodecs - Custom	1			
Choose Codecs: L16/8000 DVI4/8000 G729/8000 L16/16000 AAC_LC/32000 PCMA/8000 G722/8000 BV32/16000 BV32/16000 BV16/8000 iLBC/8000		<u>A</u> dd >> << R <u>e</u> move Move <u>Up</u> ^ Move <u>D</u> own v	Codec List Mem PCMU/8000 T.38	bers:	

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- 3. Enter a custom Codec List Name.
- 4. Select T.38 in the Choose Codecs list and click Add to move it to the Codec List Members.
- 5. Add any other needed codecs to the Codec List Members.
 - **Note:** We recommend limiting the codecs to only what is needed. We also recommend including either PCMU/8000 (G.711 Mu-Law) or PCMA/8000 (G.711 A-Law), but not both.
- 6. Click Save changes.

Configuring the Site Bandwidth Options



- 1. Login to ShoreWare Director and go to Administration > Sites.
- 2. Click the name of an existing site where users will use the fax service. In the example, Headquarters is the site where the users are located.

Sites Edit Site	New	Сору	≦ave	Delete	Resut	Help
Edit this record	Refresh this pa	ge				
Name:	Headquarters					
Service Appliance Conference Backup Site:	<none> V</none>					
Country	United States of	America V				
Language	English(US) V	1				
Parent	Top of Tree					
Use Parent As Proxy						
Local Area Code	408	1				
Additional Local Area Codes:	Edit					
Caller's Emergency Service Identification (CESID):		le a	+1 (408) 331	-3300)		
Time Zone:	(UTC-06:00) Cen	tral Time (US	& Canada), Cer	tral Standard Ti	me	v
Night Bell Extension:						
Night Bell Switch	None	Edit Night I	Sell Call Hand	ling		
Paging Extension:	[]	_ Lon Orgino	COLUMN 1 INCO			
Paging Switch	None N	1				
Operator Extension		Sei	arch			
FAX Redirect Extension	165 : FaxFinder I	P Sea	arch			
SMTP Relay		Pine				
Network Time Protocol Server						
Bandwidth						
Admission Control Bandwidth	1544	khos		-		
Intra-Site Calls	FaxCodecs - Cu	stom		V		
Inter-Site Calls	FaxCodecs - Cu	stom		×		
FAX and Modern Calls	Fax Codecs - Hi	oh Bandwidth		~	and the second	
SIP Proxy					_	
Virtual IP Address		1		1		
Proxy Switch 1:	Shoregear 30 V	1				
Proxy Switch 2:	None	-				
Emergency Number List		53 				
Trunk Access Code Required	911	A	dd More			
Edit IP Phone Address Man						

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- Set Intra-Site Calls and Inter-Site Calls to the custom Codec List you create. In the example, it is FaxCodecs

 Custom.
- 4. Set Fax and Modem Calls to FaxCodecs Highbandwidth.
- 5. Click Save.

Note: T.38 is included in the default Codec Lists (Fax Codecs – High Bandwidth and Fax Codecs – Low Bandwidth)

G.711 Pass Through Configuration

This section describes how to setup the ShoreTel for G.711 Pass Through faxing. Use this only if T.38 isn't supported on the ShoreTel Switch. Make sure that T.38 is not listed in the Codec Lists used on the Site.

Create Custom Codec List

1. Login to ShoreWare Director and go to Administration > Call Control > Codec Lists.



2. Click the site name where the users will use the fax service. In the image, this is Headquarters .

Codec Lists Edit Codec Lists	<u>N</u> ew <u>C</u> o	opy <u>S</u> ave	Delete	<u>R</u> eset	<u>Help</u>
				* mo	dified
Edit this record	Refresh this page				
Name:	FaxCodecs - Custom				
Choose Codecs:			Codec List Men	nbers:	
L16/8000 DVI4/8000 G729/8000 L16/16000 AAC_LC/32000 PCMA/8000 G722/8000 BV32/16000 BV16/8000 iLBC/8000	~	Add >> << Remove Move Up ^ Move Down v	PCMU/8000		

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- 3. Enter a Name for the custom Codec List
- 4. Add PCMU/8000 to the Codec List Members if not already included.
- 5. Make sure T.38 is NOT in the Codec List Members.
- 6. Add other codecs to the Codec List Members as needed.
 - **Note:** We recommend limiting the codecs to only what is needed. We also recommend including either PCMU/8000 (G.711 Mu-Law) or PCMA/8000 (G.711 A-Law), but not both.
- 7. Click Save to save the changes made to the Codec List.

Configuring the Site Bandwidth Options

1. Login to ShoreWare Director and go to Administration > Sites.

ShoreTel	Sites					Help
Director	Add new site	In: United States of An	nerica	✓ G0		
Build 19.43.1700.0 Logoff John Smith	Site	Country	Area Code	Bandwidth	Switches	Servers
Administration	Headquarters	United States of America	408	1544	2	Headquarters
 Users Trunks IP Phones Platform Hardware Call Control Voice Mail 	@ 1998-2013 Sho	reTel, Inc. All rights reserved.				

2. Click the site name where the users will use the fax service.

Sites	New	Сору	Save	Delete	Reset	Help
Euroite						
Edit this record	Refresh this pag	<u>e</u>				
Name:	Headquarters					
Service Appliance Conference Backup Site:	<none> V</none>					
Country:	United States of J	America 🗸				
Language:	English(US) 🗸					
Parent:	Top of Tree					
Use Parent As Proxy						
Local Area Code:	408					
Additional Local Area Codes:	Edit					
Caller's Emergency Service Identification (CESID):		(e.g. +	1 (408) 331-3	300)		
Time Zone:	(UTC-06:00) Cent	ral Time (US &	Canada), Centr	al Standard Tir	ne	~
Night Bell Extension:						
Night Bell Switch:	None V	Edit Night B	ell Call Handli	ng		
Paging Extension:						
Paging Switch:	None 🗸]				
Operator Extension:		Sea	rch			
FAX Redirect Extension:	165 : FaxFinder IF	Sea	rch			
SMTP Relay:		Ping]			
Network Time Protocol Server:						
Bandwidth:						
Admission Control Bandwidth:	1544	kbps				
Intra-Site Calls:	FaxCodecs - Cus	tom	×	2 🥌		
Inter-Site Calls:	FaxCodecs - Cus	tom	×	2 🗲		
FAX and Modern Calls:	Fax Codecs — Hi	gh Bandwidth	Passthrough N	 Image: A set of the set of the		
SIP Proxy:						
Virtual IP Address:						
Proxy Switch 1:	Shoregear 30 🗸]				
Proxy Switch 2:	None 🗸]				
Emergency Number List						
Trunk Access Code Required	911	Ad	d More			
Edit IP Phone Address Map						

- Set Intra-Site Calls and Inter-Site Calls to the custom Codec List you created. In the image, this is FaxCodecs – Custom.
- 4. Set Fax and Modem Calls to FaxCodecs Highbandwidth Pass Through.
- 5. Click Save.

Note: T.38 is included in the default Codec Lists (Fax Codecs – High Bandwidth and Fax Codecs – Low Bandwidth)

FaxFinder IP (FF240-IP) Configuration

This section provides a brief overview of FF240-IP needed to work with ShoreTel. For configuration details and help with other options, details, refer to the *FaxFinder Fax Server FF240-IP Administrator Guide*. To download this, go to www.multitech.com/support and select FaxFinder IP from the drop down list.

Install the FF240-IP on an IP network with the ShoreTel Switch. Basic configuration is detailed in the Administrator Guide. To verify configuration, configure inbound fax routing and test fax delivery by sending a fax from the FF240-IP

- **1.** Install the FF240-IP using the basic configuration describe in the *FF240-IP Administrator Guide*. Verify the fax routing by Sending a Loop Back Test Fax as described in the Administrator Guide.
- In FF240-IP, go to Fax Configuration > SIP/T.38 and change the SIP Proxy/Gateway to point to the ShoreTel Switch. If using a Virtual Trunk Switch, set this to the IP address of the Virtual Trunk Switch, this appears in the ShoreTel Individual Trunk menu.

Home	SIP / T 38 Configuration		Defai
Send Fax	SIP / 1.50 Configuration	-	
Status & Logs	314		
System Configuration	Transport Protocol UDP	Local Port	5060
an Carlin and an	SIP Proxy/Gateway 172.16.2.207	SIP Proxy Port	5060
rax conliguration	SIP Domain	Loose Routing	🖲 on 🗇 off
51P / T.38	Firewall Address		
Outbound	Authorization Required	Use Registrar	8
Outbound Approval	Ucername		
Cover Pages		Registrar	
Store & Forward (T.37)	Password	Registrar Port	5060
Fax Log	Confirm Password		2400 (4444)
	a comparated second a second sec	Expires	3600 (secs)

T.38			
Fax ID	FF240-IP Test Fax ID	Max Rate	9600
Fax Method	T.38 Re-invite	Error Correction	\odot on \bigcirc off
Fax Codec	☑ G.711 Alaw	Dialing Rules	Rule1
	☑ G.711 µlaw	Jitter Buffer Delay	300 (msecs)
Redundancy Level	0	Max Datagram	948
Max Buffer	4000	Extension Length	0
Channel Reservation	4 Inbound Only	Extension Source	SIP To Header SIP Diversion Header
	4 Outbound Only	Extension Digits	Use All

3. If you configured ShoreTel to use each extension for both voice and fax, set the T.38 Extension Source to **SIP Diversion Header**. If using an extension for fax only, set this to **SIP To Header**.

- **4.** If the FF240-IP will not use all the digits ShoreTel sends to it for fax routing, adjust the **Extension Digits** and **Extension Length**. Otherwise, leave these fields at the default settings.
- 5. If using T.38 to fax, set the Fax Method to T.38 Re-Invite. If using G.711 Pass Through, set the Fax Method to T.30 Pass Through.
- 6. Configure Inbound Routing to match the extension numbers that the ShoreTel Switch is faxing to.

	FaxFinder® IP Fa FF240-1P Firmware 3.2.7	x Server		Logged In: admin Logout
Home	Inbound Routi	ng 🔋		
Send Fax	Inbound Option	15		
Status & Logs		15		0
System Configuration	Global Routing			
Fax Configuration	Default Routing	J		\odot
SIP / T.38	Recipients		Add Impo	rt Export Delete All
Inbound Routing Outbound	Route faxes by ext	ension.		
Outbound Approval	Extension	Name	Fax Destinations	
Cover Pages	121	ShoreTel 121	Email Fax: jsmith@faxmail.com	
Store & Forward (T.37)	131	ShoreTel 131	Email Fax to User: admin	$\mathrel{\textcircled{\baselineskip}{\baselineskip}}$
Fax Log		Dicplaying 1 - 2	¥ 2	
Users		Displaying 1 - 2 d	n 2	
Contacts				

View Fax Progress

To view inbound or outbound fax progress go to **Status & Logs > Fax Status**.

	FaxFin FF240-IP	Ider®] Firmware	[P Fax Serve 3.2.7	r				Logge	ed In: admi Logou
	Fax	Status	: 2	_	_			_	_
	Cha	nnel Si	tatus						
	#	State		Pages	Fax		Connect T	ime	<u> </u>
	1	Receiv	ing	5	121		09/15/2014 02:06:41 PM		Ô
	2	Waitin	g For Ring						\bigcirc
.og	3	Waitin	g For Ring						Ô
c Log	4	Sendir	ng		121		09/15/2014 02:06:41 PM		٢
ration	5	Waitin	g For Ring						٥
	6	Waitin	g For Ring						0
on	7	Waitin	g For Ring						٥
	8	Waitin	g For Ring						© _
								Last updated: 0	1:45:41
	Inb	ound F	ax Status						
	Sta	ate	Start Time	Channe	Fax	Recipient	Remote ID	Recv'd	
н пс.	rec	eiving	09/15/2014 02:06:41 PM	1	121	ShoreTel 121	FF240-IP	0	\otimes
	Out	bound	Fax Status					Send Now	Abort
		State	e Created	At S	cheduled	For S	ender	Fax Details	5
		sendi	ng 09/15/20 02:06:27	014 09 7 PM 02	/15/2014 :06:41 PM	a(1 (4	dmin Administrator)	(1 page)	
		to Refresh						Last updated: 0	1:45:46

FaxFinder IP Troubleshooting

To troubleshoot FF240-IP, login it's web interface and go to **System Configuration->Debug**. Set the log level to **INFO**. Save and restart the system. Click on logs and save the file in the local computer. You can then contact the MultiTech support as described below and provide them the debug information.

FFx40 Fax Application

For an analog FaxFinder, create a user in ShoreWare Director for each modem on the fax server. Then configure that user to use the correct extension and set the Fax Method.

Modify Individual Users for FaxFinder

1. Go to Administration > Users > Individual Users.

ShoreTel		Individual	ndividual Users								Help
Director		Add new u	iser at site:	Headquarters	✓ Go						
Build 19.43.1700.0 Logoff John Smith		Show pag	e: 1 : FaxFind	der - FaxFinder		✓ I< < >	▶1 2 Re	ecords 25	✓ per paç	je <u>Exp</u>	<u>ort to</u> Excel
Administration • Users	^	First Name	Last Name	Site	User Group	Access License	Extension	Mailbox	Switch	Port	Status
• Individual Users		FaxFinder	Channel 1	Headquarters	Executives	Personal	116	116	Shoregear 30	12	Home
• Class of Service		FaxFinder	Channel 2	Headquarters	Executives	Personal	115	115	Shoregear 30	11	Home
 Anonymous Telephones Extension Lists Batch Update Utility Call Handling Mode Defaults 		<u>© 1998-2013 S</u>	ihoreTel, Inc. All r	ights reserved.							

2. If creating a new user, select the site from the Add new user at site drop down list and click Go. For an existing user, click that user's first name.

Users Edit User	New Copy Save Delete Reset
👻 General	Personal Options Distribution Lists Workgroups Refre
First Name:	FaxFinder
Last Name:	Channel 1
Number:	116
License Type:	Extension and Mailbox 🗸
Access License:	Personal Enable Contact Center Integration
Caller ID:	(e.g. +1 (408) 331-3300)
DID Range:	View System Directory
DID Number:	
PSTN Failover:	None V
User Group:	Executives So to this User Group
Site:	Headquarters V
Language:	English(US) 🗸
Primary Phone Port:	O IP Phones Any IP Phone V
	Ports Shoregear 30 - 12 V
	SoftSwitch SoftSwitch V
Current Port:	Shoregear 30 - 12 Go Primary Phone
Jack #:	

- 3. For a new user, enter the user's First Name and Last Name.
- 4. Enter the user's phone extension in Number.

5. Select **Ports** for **Primary Phone Port** and select the port to use on the ShoreTel Switch.

Mailbox Server:	Headquarters V Esca	lation Profiles and Othe	er Mailbox Options
Accept Broadcast Messages			
Include in System Dial By Name Director	ory		
Make Number Private			
Fax Support:	Fax Server	<	
Allow Video Calls:	None		
Allow Telephony Presence			
Shared Call Appearances			
Associated BCA:		1	
Allow Use of Soft Phone			
Allow Phone API			
Mobility Options:			
Allow Mobile Access			
Allow Enhanced Mobility with Extens	ion	1	
,		_	
Delayed Ringdown			
Extension:		Search	
External Number:		(e.g. 9+1 (408) 331-3	300)
Ringdown Delay:		sec	
Client Username:	FaxFinder-ch1		
Client Password:	•••••		
Voice Mail Password:	••••	••••	
SIP Password:	•••••	•••••	
Email Address:	ffch1@multitech.com		
Conferencing Settings:			
Appliance:	<none> V</none>		
Instant Messaging Settings:			
Server / Appliance: Edit System Directory Record	<none> V</none>		

- 6. For **Fax Support Field**, select **Fax Server** from the drop down list. This sets the ShoreTel Switch to output the extension's digits after the FaxFinder answers the call.
- 7. Enter the Client Username.
- 8. Click Save.
- 9. Repeat these steps for each FFx40 modem.

FaxFinder Analog (FFx40) Configuration

This section provides a brief overview of FFx40 configuration needed to work with ShoreTel. For configuration details and help with other options, refer to the *FaxFinder Fax Server FF240, FF440, FF840 Administrator Guide.* To download this, go to <u>www.multitech.com/support</u> and select FaxFinder Analog from the drop down list.

Configure FaxFinder Modems

1. Login to FaxFinder and go to Fax Configuration > Modem.

	FaxFin FF840 Fin	der(mwar	B Fax Server ^{3.2.7}					Logged	In: admin Logout
Home	Mode	em	Configurations 💈					Edit	Selected
Send Fax									
Status & Logs		#	Port Fax ID	Rings	Max Ext	Routing	Max Baud	Direction	
System Configuration		1	1:1 POTS modem 1	2	3	dtmf	14400	both	۲
Fax Configuration		2	1:2 POTS modem 2	2	3	dtmf	14400	both	۲
Modem		3	1:3 POTS modem 3	2	3	dtmf	14400	both	۲
Inbound Routing Outbound		4	1:4 POTS modem 4	2	3	dtmf	14400	both	۲
Outbound Approval		5	1:5 POTS modem 5	2	3	dtmf	14400	both	۲
Cover Pages		6	1:6 POTS modem 6	2	3	dtmf	14400	both	۲
Store & Forward (T.37)		7	1:7 POTS modem 7	2	3	dtmf	14400	both	۲
Users		8	1:8 POTS modem 8	2	3	dtmf	14400	both	۲
Contacts									
Logout									

2. Check to select the modems you want to edit and click Edit Selected to open Modem Configuration.

Modem Config	uration			
Modem	All Modems		Fax ID	POTS modem 1
Country Code	United States(US)	T	Max Extension Digits	3
Answer On	2 ring(s)		Fax Direction	both •
Routing	DTMF Digits	T	Error Correction	○ off
Routing Definition		Key Desc	Smart Dial	○ off
Max Baud Rate	14400 🔻		Tone Dial	○ off
Dial Prefix			Fax Debugging	● off ^O on
Init String				
				Save

- 3. Set Routing as DTMF Digits.
- 4. Set a Max Baud Rate of 14400.
- 5. Set the Max Extension Digits to the number of digits that will be received by the ShoreTel system.
- 6. Click Save.

Configure Inbound Routing

Add Recipient		×
Extension		
Name		
	Save	Cancel

- **1.** Login to FaxFinder and click **Fax Configuration > Inbound Routing.**
- 2. Under Recipients, click Add.
- 3. For Extension, enter the ShoreTel extension for this Recipient.
- 4. Enter a unique Name for this Recipient.
- 5. Click Save. Edit Recipients opens.

Edit Recipio	ent (Extension 115)		
Extension	115		
Name	ShoreTel 115		
		Save	Cancel
Destination	15		Add
There are no des	stinations		
			Done

6. Under Destinations, click Add.

Add Destination	n (Extension 115)
Destination Type	Email Fax to User Add
Select User	admin 🔻
Destinations	
	Save Cancel

- 7. Select how you want the fax delivered from the **Destination Type** drop down list. Options are:
 - Email Fax to User
 - Email Notification to User
 - Email Fax
 - Email Notification
 - Share
 - SFTP
 - Print
 - Trash

For details on these settings, refer to the FaxFinder FF240, FF440, FF840 Administrator Guide.

- 8. Depending on your Destination Type, you'll be prompted to enter a user, email address, share, server, or printer.
- 9. Click Save.
- **10.** Add additional destinations as needed for this recipient.
- **11.** When you finish adding destinations, click **Done**.
- **12.** Add additional recipients for each ShoreTel User created for the FaxFinder.

View Fax Progress

To view inbound or outbound fax progress go to Status & Logs > Fax Status.

	FaxFin FF840 Fir	der® F mware 3.2	ax Server						: admin Logout
Home	Fax 9	Status	2						
Send Fax	Mod	em Sta	atus						
Status & Logs	#	Dort	Stato	Dag	0 000	noct Timo	Eav		0
System Status		Tut o	anding Dags 1	Fag	00/16	/2014	115	0	0
Fax Status	1	1:1 5	ending Page 1	1	03:12	:35 PM	115		0
Mail Queue Mail Log	2	1:2 R	eceiving Page 1	0	09/16 03:12	/2014 :38 PM	115	0	\otimes
Inbound Fax Log	3	1:3 V	/aiting For Ring	0				0	\otimes
Call Log	4	1:4 V	aiting For Ring	0				0	\otimes
Curters Configuration	5	1:5 V	aiting For Ring	0				0	\otimes
System Configuration	6	1:6 V	aiting For Ring	0				0	\times
Fax Configuration	7	1:7 V	/aiting For Ring	0				0	\otimes
Users	8	1:8 V	/aiting For Ring	0				0	\times
Contacts								Last updated: 02:49	:46
Logout	Inbo	ound Fa	ax Status						
	Sta	te	Start Time	Line	Fax	Recipient	Remote ID	Recv'd	
Copyright © 1995-2014 Multi-Tech Systems, Inc. All rights reserved.	rece	eiving	09/16/2014 03:12:25 PM	2	115	ShoreTel 11	5 POTS modem	1 1	
	Out	ound	Fax Status					Send Now Ab	oort
		State	e Created At	Scl	nedule	d For	Sender	Fax Details	
		sendir	ng 09/16/2014 03:11:51 PM	09/ 03:	16/2014 12:01 P	ŧ M	admin (Administrator)	(1 page)	
	Aut	o Refresh						Last updated: 02:49	:46

Application Note Feedback

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