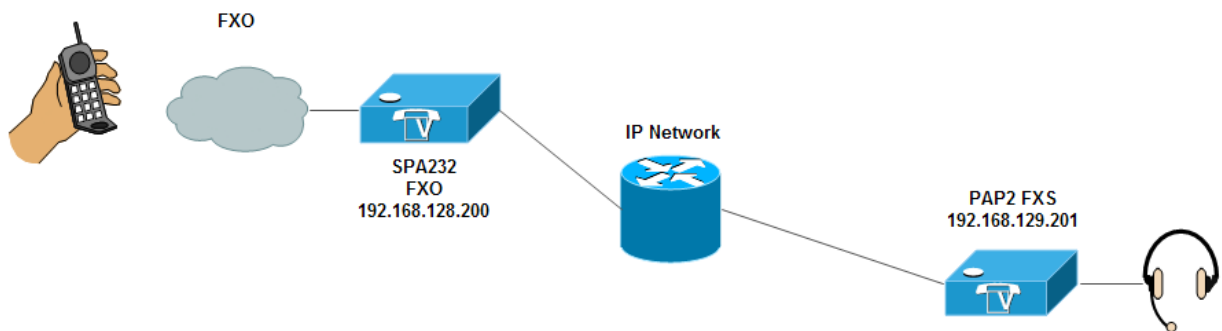


FXO Ponto A Ponto Com ATA SPA232 e PAP2-T

Nesse documento vou descrever como configurar o transporte de uma porta FXO via ip para outra porta FXS

Estou usando o seguinte cenário:



Configuração lado do SPA232

Suponho que o endereçamento ip já esteja correto, outra detalhe é que estou usando sem nat estou um um túnel GRE entre as 2 redes.

Quick Setup Network Setup **Voice** Administration Status

Information System SIP Provisioning Regional Line 1 Line 2 Line 3 Line 4 **PSTN** Line 5 Line 6 Line 7 Line 8 Line 9 Line 10 DECT User

PSTN

NAT Settings	
NAT Mapping Enable: <input type="text" value="no"/>	NAT Keep Alive Enable: <input type="text" value="no"/>
NAT Keep Alive Msg: <input type="text" value="SNOTIFY"/>	NAT Keep Alive Dest: <input type="text" value="SPROXY"/>
Proxy and Registration	
Proxy: <input type="text" value="192.168.129.201:5060"/>	
Outbound Proxy: <input type="text"/>	
Use Outbound Proxy: <input type="text" value="no"/>	Use OB Proxy In Dialog: <input type="text" value="yes"/>
Register: <input type="text" value="yes"/>	Make Call Without Reg: <input type="text" value="yes"/>
Register Expires: <input type="text" value="3600"/>	Ans Call Without Reg: <input type="text" value="yes"/>
Use DNS SRV: <input type="text" value="no"/>	DNS SRV Auto Prefix: <input type="text" value="no"/>
Proxy Fallback Intvl: <input type="text" value="3600"/>	Proxy Redundancy Method: <input type="text" value="Normal"/>
Subscriber Information	
Display Name: <input type="text"/>	User ID: <input type="text" value="201"/>
Password: <input type="text"/>	Use Auth ID: <input type="text" value="no"/>
Auth ID: <input type="text"/>	
Audio Configuration	
Preferred Codec: <input type="text" value="G711u"/>	Use Pref Codec Only: <input type="text" value="no"/>
Use Remote Pref Codec: <input type="text" value="no"/>	Codec Negotiation: <input type="text" value="Default"/>
G729a Enable: <input type="text" value="yes"/>	Silence Supp Enable: <input type="text" value="no"/>

Submit Cancel Refresh

- Proxy:**Endereço do FXS : Porta SIP dele
- Codec:**Deve ser igual nos 2 Equipamentos
- UserID:** Qual o usuário que ele vai deve receber do ata FXS.

Dial Plans

Dial Plan 1: (<S0:200@192.168.129.201:5060>)

Dial Plan 2: (xx.)

Dial Plan 3: (xx.)

Dial Plan 4: (xx.)

Dial Plan 5: (xx.)

Dial Plan 6: (xx.)

Dial Plan 7: (xx.)

Dial Plan 8: (xx.)

VoIP To PSTN Gateway Setup

VoIP-To-PSTN Gateway Enable: yes

VoIP PIN Max Retry: 3

Line 1 VoIP Caller DP: 1

VoIP Caller Default DP: 2

VoIP Caller ID Pattern:

VoIP Access List:

VoIP Caller 1 PIN:

VoIP Caller Auth Method: none

One Stage Dialing: yes

DECT Line Caller DP: 1

Line 1 Fallback DP: none

VoIP Caller 1 DP: 1

Submit Cancel Refresh

Dial Plan: É para onde vai ser roteada a chamada nessa caso S0 se refere a Porta FXO e 200@IP é qual o UserID vai enviar para o IP do FXS

VoIP-To-PSTN Gateway Enable: Habilita o roteamento de uma chamada IP para sair por uma porta analógica-

VoIP Caller Default DP: Encaminha uma chamada para a FXO

PSTN

PSTN-To-VoIP Gateway Setup

PSTN-To-VoIP Gateway Enable: yes

PSTN Ring Thru: yes

PSTN CID For VoIP CID: yes

PSTN Caller Default DP: 1

Line 1 Signal Hook Flash To PSTN: Disabled

PSTN Caller ID Pattern: 200

PSTN Access List:

PSTN Caller 1 PIN:

PSTN Caller 2 PIN:

PSTN Caller 3 PIN:

PSTN Caller 4 PIN:

PSTN Caller 5 PIN:

PSTN Caller 6 PIN:

PSTN Caller 7 PIN:

PSTN Caller 8 PIN:

PSTN Caller Auth Method: none

PSTN PIN Max Retry: 3

PSTN CID Number Prefix:

Off Hook While Calling VoIP: no

PSTN CID Name Prefix:

PSTN Caller 1 DP: 1

PSTN Caller 2 DP: 1

PSTN Caller 3 DP: 1

PSTN Caller 4 DP: 1

PSTN Caller 5 DP: 1

PSTN Caller 6 DP: 1

PSTN Caller 7 DP: 1

PSTN Caller 8 DP: 1

PSTN Timer Values (sec)

VoIP Answer Delay: 0

PSTN Answer Delay: 2

VoIP PIN Digit Timeout: 10

PSTN PIN Digit Timeout: 10

Submit Cancel Refresh

PSTN Caller Default DP: Vai utilizar o Dial-Plan 1

PSTN Caller ID Pattern: Usuário que será utilizado para enviar a ligação vinda da PSTN

PSTN Caller Auth: Desabilita autenticação

PSTN

PSTN-To-VoIP Call Max Dur:	0	PSTN Ring Thru Delay:	1
VoIP-To-PSTN Call Max Dur:	0	PSTN Ring Thru CWT Delay:	3
VoIP DLG Refresh Inhd:	0	PSTN Ring Timeout:	5
PSTN Dialing Delay:	1	PSTN Dial Digit Len:	.1/.1
PSTN Hook Flash Len:	.25		

PSTN Disconnect Detection

Detect CPC:	yes	Detect Polarity Reversal:	yes
Detect PSTN Long Silence:	no	Detect VoIP Long Silence:	no
PSTN Long Silence Duration:	30	VoIP Long Silence Duration:	30
PSTN Silence Threshold:	medium	Min CPC Duration:	0.2
Detect Disconnect Tone:	yes		
Disconnect Tone:	425@-19,425@-19;5(.25/.25/1+2)		

International Settings

FXO Country Setting:	BRAZIL	Ring Frequency Min:	10
SPA To PSTN Gain:	0	Ring Frequency Max:	100
PSTN To SPA Gain:	6	Ring Validation Time:	256 ms
Ring Indication Delay:	512 ms	Ring Timeout:	640 ms
Ring Threshold:	13.5-16.5 Vrms	Line-In-Use Voltage:	20
DTMF Level:	-10	DTMF Twist:	2

Submit Cancel Refresh

PSTN Dialing Delay: Tempo que o ata vai atender a chamada e encaminhar pelo dial-plan

Disconnect Tone: A Frequência do tom de um desconexão, este é o padrão do brasil, se estiver incorreto pode ficar presa a ligação quando desligar 425@-19,425@-19;5(.25/.25/1+2)

Line-in-Use Voltage: É a voltagem para considerar a linha ativa, o padrão é 30 mas se for ligar em um PABX deixar 20 para detectar a linha.

User 1

Call Forward Settings	
Cfwd All Dest:	<input type="text" value="200"/>
Cfwd No Ans Dest:	<input type="text"/>
Cfwd Busy Dest:	<input type="text"/>
Cfwd No Ans Delay:	<input type="text" value="20"/>

Selective Call Forward Settings	
Cfwd Sel1 Caller:	<input type="text"/>
Cfwd Sel2 Caller:	<input type="text"/>
Cfwd Sel3 Caller:	<input type="text"/>
Cfwd Sel4 Caller:	<input type="text"/>
Cfwd Sel5 Caller:	<input type="text"/>
Cfwd Sel6 Caller:	<input type="text"/>
Cfwd Sel7 Caller:	<input type="text"/>
Cfwd Sel8 Caller:	<input type="text"/>
Cfwd Last Caller:	<input type="text"/>
Block Last Caller:	<input type="text"/>
Cfwd Sel1 Dest:	<input type="text"/>
Cfwd Sel2 Dest:	<input type="text"/>
Cfwd Sel3 Dest:	<input type="text"/>
Cfwd Sel4 Dest:	<input type="text"/>
Cfwd Sel5 Dest:	<input type="text"/>
Cfwd Sel6 Dest:	<input type="text"/>
Cfwd Sel7 Dest:	<input type="text"/>
Cfwd Sel8 Dest:	<input type="text"/>
Cfwd Last Dest:	<input type="text"/>
Accept Last Caller:	<input type="text"/>

Speed Dial Settings	
Speed Dial 2:	<input type="text"/>
Speed Dial 4:	<input type="text"/>
Speed Dial 6:	<input type="text"/>
Speed Dial 8:	<input type="text"/>
Speed Dial 3:	<input type="text"/>
Speed Dial 5:	<input type="text"/>
Speed Dial 7:	<input type="text"/>
Speed Dial 9:	<input type="text"/>

Cfwd All Dest: Encaminha todas as chamadas recebidas para o Numero 200

Configuração PAP2 FXS

Subscriber Information	Outbound Proxy:	<input type="text"/>	Use OB Proxy in Dialog:	<input type="text" value="yes"/>
	Register:	<input type="text" value="no"/>	Make Call Without Reg:	<input type="text" value="yes"/>
	Register Expires:	<input type="text" value="3600"/>	Ans Call Without Reg:	<input type="text" value="yes"/>
	Use DNS SRV:	<input type="text" value="no"/>	DNS SRV Auto Prefix:	<input type="text" value="no"/>
	Proxy Fallback Intvl:	<input type="text" value="3600"/>	Proxy Redundancy Method:	<input type="text" value="Normal"/>
	Voice Mail Server:	<input type="text"/>	Mailbox Subscribe Expires:	<input type="text" value="2147483647"/>
	Display Name:	<input type="text"/>	User ID:	<input type="text" value="200"/>
	Password:	<input type="text"/>	Use Auth ID:	<input type="text" value="no"/>
	Auth ID:	<input type="text"/>		
	Mini Certificate:	<input type="text"/>		
SRTP Private Key:	<input type="text"/>			
Supplementary Service Subscription	Call Waiting Serv:	<input type="text" value="yes"/>	Block CID Serv:	<input type="text" value="yes"/>
	Block ANC Serv:	<input type="text" value="yes"/>	Dist Ring Serv:	<input type="text" value="yes"/>
	Cfwd All Serv:	<input type="text" value="yes"/>	Cfwd Busy Serv:	<input type="text" value="yes"/>

Service Announcement Serv:	no	Silence Supp Enable:	no	
Audio Configuration	Preferred Codec:	G711u	Silence Threshold:	medium
	Use Pref Codec Only:	no	Echo Canc Enable:	yes
	G729a Enable:	yes	Echo Canc Adapt Enable:	yes
	G723 Enable:	yes	Echo Supp Enable:	yes
	G726-16 Enable:	yes	FAX CED Detect Enable:	yes
	G726-24 Enable:	yes	FAX CNG Detect Enable:	yes
	G726-32 Enable:	yes	FAX Passthru Codec:	G711u
	G726-40 Enable:	yes	FAX Codec Symmetric:	yes
	DTMF Process INFO:	yes	FAX Passthru Method:	NSE
	DTMF Process AVT:	yes	DTMF Tx Mode:	Strict
	DTMF Tx Method:	Auto	Hook Flash Tx Method:	None
	FAX Process NSE:	yes	Release Unused Codec:	yes
	FAX Disable ECAN:	no		
Dial Plan	Dial Plan:	(<S0:201@192.168.128.200:5061>)	Emergency Number:	
	Enable IP Dialing:	yes		
FXS Port Polarity Configuration	Idle Polarity:	Forward	Caller Conn Polarity:	Forward
	Callee Conn Polarity:	Forward		
Save Settings		Cancel Settings		

Codec: Codec de áudio precisa ser o mesmo dos 2 lados.

DialPlan: Envia todos os dígitos para o IP e porta do outro ATA.

Com isso está concluída a configuração.

Daniel Vieceli